

## R10\_RCRA\_Records

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**From:** Palumbo, Janice  
**Sent:** Friday, August 20, 2021 11:03 AM  
**To:** R10\_RCRA\_Records  
**Subject:** RCRA Records Submittal WA 3019 6D FW: JH Baxter site in Arlington, WA  
**Attachments:** 1H2018 O&M Report\_Baxter Arlington.pdf

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**Subject:** RE: JH Baxter site in Arlington, WA

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**Subject:** JH Baxter site in Arlington, WA

Hi Janice. I found your contact information on the EI Determination dated December 14, 2004 for the JH Baxter site. The Site ID is 1000747. The EPA ID is WAD053823019.

I am doing a Phase I Environmental Site Assessment for the mobile home park located adjacent and downgradient from the JH Baxter site. I'm trying to find out if there is recent groundwater monitoring data for the site to determine if contamination from JH Baxter has migrated to the mobile home park.

- Is the EI Determination dated December 14, 2004 the most recent for JH Baxter?
- Can you email me the most recent groundwater monitoring report for JH Baxter?

Ron Bek, LG

Telephone: 360-303-2819

Email: [rbek@phase1esaconsulting.com](mailto:rbek@phase1esaconsulting.com)

Confidentiality: This message is confidential and intended only for use of the individual to whom it is addressed. If you are not the person for whom this message is intended, please delete it and notify me as soon as possible. Please do not copy or send this message to anyone else.

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*Report*

# **First Half 2018**

## **Operations and Monitoring Report**

### *Remedial Action Pilot Study*



Former J.H. Baxter & Co. Wood Treating Facility  
Arlington, Washington

Prepared for

**U.S. Environmental Protection Agency**

Region 10  
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Submitted by

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**September 2018**

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## 1. Significant Developments This Period

The recirculation trench has operated as designed with a total flow rate of approximately 45 to 50 gallons per minute (gpm) from extraction wells EW-1, EW-2, EW-4, and EW-5. There have been no high alarms since rehabilitation of the system in July 2015.

Since the first and second quarter monitoring events in 2016, pentachlorophenol (PCP) concentrations have decreased in several wells, including multiple downgradient wells. This suggests the effects of the rehabilitation of the recirculation system and addition of the in situ submerged oxygen curtains (iSOCs) are reducing concentrations downgradient of the system. See Section 4.2 for more details regarding PCP concentrations observed during the first half of 2018.

## 2. Introduction

The J.H. Baxter Team, consisting of J.H. Baxter & Co. (Baxter) and GSI Water Solutions, Inc. (GSI), has prepared this *First Half 2018 Operations and Monitoring Report - Remedial Action Pilot Study* (O&M report) for the former J.H. Baxter wood-treating facility (Site) that currently is operated by McFarland Cascade Holdings, Inc. (a Stella-Jones Company), located at 6520 188<sup>th</sup> Street NE in Arlington, Washington (Figure 1). This report has been prepared for the U.S. Environmental Protection Agency (EPA) to document the results of groundwater monitoring and remedial action for the Site during the first half of 2018 (January 1, 2018, to June 30, 2018).

The Remedial Action Pilot Study is considered to be part of the ongoing Corrective Measures Study (CMS; Baxter, 2011), which is being implemented pursuant to Paragraph 53 of the EPA Administrative Order on Consent (AOC) dated April 30, 2001 (EPA, 2001). CMS-related activities were conducted consistent with guidance provided by EPA in the RCRA Corrective Action Plan (Final), dated May 1994 (EPA, 1994); Corrective Actions Advance Notice of Proposed Rulemaking (EPA, 1996); and the AOC.

This semiannual report fulfills the documentation required for the ongoing operations and maintenance (O&M) related to the *Remedial Action Pilot Study Work Plan* (Baxter, 2007a) and *Remedial Action Pilot Study Performance Monitoring Plan* (PMP; Baxter, 2007b), which were submitted to EPA in 2007.

## 3. Remedial Action Pilot Study

The Remedial Action Pilot Study was designed to enhance in situ bioremediation and passive recovery of light nonaqueous-phase liquid (LNAPL). The pilot study includes an extraction well network, infiltration trench, recovery wells, and monitoring well network (Figure 2). The pilot study installation was completed in January 2008, with six additional monitoring wells added in 2010.

The purpose of the enhanced in situ bioremediation (the recirculation system) is to increase groundwater pH for favorable conditions for biodegradation of PCP. The system also adds oxygen by pumping the reduced water and allowing it to cascade through the vadose zone, picking up oxygen before reaching the groundwater table. The recirculation system uses four extraction wells to extract affected groundwater, which is pumped in an infiltration trench upgradient of the extraction wells. The infiltration trench is composed of basalt gravel and limestone rock, which is intended to raise the pH of the affected groundwater when contact is made. Additionally, LNAPL is passively recovered in five recovery wells with the installation of sorbent socks.

## 4. Operations, Maintenance, and Monitoring

Routine monitoring changed from monthly to quarterly in July 2010 with EPA's approval (EPA, 2010). EPA approved another reduction in reporting from quarterly to semiannual O&M reports in its May 18, 2015, letter (EPA, 2015b). Routine monitoring includes:

- Record groundwater level measurements in the monitoring well network.
- Collect groundwater samples from the monitoring well network.
- Collect a composite groundwater sample from the extraction wells.
- Inspect the sorbent socks in the recovery wells and replace if saturated.

### 4.1 Groundwater Level Measurements

Groundwater monitoring events occurred on March 17 and 18, 2018, for the first quarter of 2018 and between June 16 and 17, 2018, for the second quarter of 2018. The groundwater elevations from the first and second quarter 2018 monitoring events, and the previous four monitoring events, are presented in Table 1.

A groundwater elevation contour map of the first and second quarter 2018 monitoring events is presented in Figures 3 and 4, respectively. At the time groundwater measurements were collected, extraction wells EW-1, EW-2, EW-4, and EW-5 were running.

Appendix A provides additional figures with more detailed analyses of groundwater elevations across the Site and information about operation of the recirculation system. Figure A-1 is a cross section location map. Figures A-2 through A-5 present the groundwater elevations along each cross section from the first and second quarter 2018 monitoring events. The wells along each transect have been identified as a shallow well, intermediate well, or deep well based on the following classifications:

- A shallow well has the elevation of the bottom of the screen above 90 feet, North American Vertical Datum of 1988 (NAVD88).
- An intermediate well has the elevation of the bottom of the screen between 70 and 90 feet, NAVD88.
- A deep well has the elevation of the bottom of the screen below 70 feet, NAVD88.

Well clusters of different screened intervals were used to evaluate vertical gradients. The vertical gradients for each well pair are presented in Table 2 and Figure 5, where a negative

gradient indicates an upward trend and a positive gradient indicates a downward trend. In Appendix A, Figures A-2 through A-5 display the vertical gradients for select well pairs. Figures A-4 and A-5 show that water levels in the shallow zone, where the extraction and infiltration occurred, were generally higher in the area of infiltration and lower in the area of extraction, as would be expected. The MW-25/MW-32 well pair (Figure 5) shows a downward gradient that is consistent with past trends and is to be expected near the infiltration trench, where shallow water levels are elevated because of the infiltrating groundwater. In between the infiltration trench and extraction wells, at well pair MW-3/MW-33, a greater downward vertical gradient was observed during the second quarter 2018 as compared to previous quarters. Similarly, an increased downward vertical gradient between the deep zone and shallow zone near the extraction wells (MW-29/MW-38 well pair) was observed in the second quarter 2018. Downgradient of the recirculation system, there is little vertical gradient between the shallow, intermediate, and deep zones with the exception of the downward gradient at the distal well cluster MW-37/MW-41 between the intermediate and deep zones.

Hydrographs for each monitoring well are presented in Appendix A (Figures A-6 through A-25) along with precipitation data. Daily precipitation data, consisting of rain and snowmelt, are from the National Climatic Data Center's station in Arlington, Washington. Trends between the groundwater elevation and precipitation are shown in the hydrographs, with groundwater levels rising after periods of lower precipitation and groundwater levels decreasing after periods of low or no precipitation. Groundwater elevations generally increased from the fourth quarter of 2017 into the first and second quarters of 2018, with a few exceptions, attributed to the increased frequency and intensity of rainfall events occurring during the fourth quarter 2017 and first quarter of 2018.

## 4.2 Groundwater Monitoring and Water Quality

The first half of 2018 groundwater monitoring occurred on March 17 and 18, 2018, for the first quarter of 2018 and between June 16 and 17, 2018, for the second quarter of 2018. In the monitoring well network, 31 monitoring wells were sampled during each monitoring event and a composite sample of the operational extraction wells, with the exception of EW-5 because of accessibility issues, was collected. MW-18 could not be located during the second quarter 2018 monitoring event due active property improvements. The well was subsequently located and will be sampled during the third quarter 2018 monitoring event. The following monitoring wells were sampled for PCP by EPA Method 8151A:

- HCMW-7
- MW-22 through MW-25
- MW-28 and MW-29
- MW-31 through MW-34
- MW-38 through MW-43
- Composite sample of EW-1, EW-2, and EW-4 (sampled for PCP and its breakdown products)

The following wells were analyzed for PCP by EPA Method 8151A and polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270D SIM:

- BXS-1, BXS-2, BXS-3
- MW-2 and MW-3
- MW-15 through MW-18
- MW-30
- MW-35 through MW-37

Wells were sampled using dedicated submersible bladder pumps in “Site Investigation” wells installed before 2004, and a portable submersible pump in “PMP” wells installed in 2007 or later that was decontaminated after sampling each well. Groundwater samples were collected by Baxter personnel in general accordance with the *Revised Supplemental Dissolved-phase Groundwater Monitoring Plan* (Baxter, 2005) and *Site Investigation Work Plan* (Baxter, 2002). Samples were analyzed by ALS Environmental (ALS) in Kelso, Washington. Laboratory reports are presented in Appendix B. Monitoring well analytical results are summarized in Table 3A. Extraction well analytical results are summarized in Tables 3B and 3C, with historical analytical data in Tables 3D for comparison. Table 4 presents the bacteriological analysis from select wells in 2010.

PCP results for the first and second quarters of 2018 are presented in Figure 6. Historical quarterly PCP isopleth maps for the shallow and intermediate zones have been combined since 2008 and are shown in Figures 7 through 16, with each figure consisting of 1 calendar year of PCP isopleth maps. The first and second quarters of 2018 PCP isopleth maps for the shallow and intermediate zones combined are presented in Figures 17 and 18, respectively. Historical quarterly PCP isopleth maps in the deep zone since the fourth quarter of 2011 are shown in Figures 19 through 24. The first and second quarters of 2018 PCP isopleth maps for the deep zone are presented in Figures 25 and 26, respectively. Figure 27 displays the PCP concentrations from the second quarter of 2018 along a cross-section longitudinal to the PCP plume. Time series plots of PCP and PAH concentrations by well are presented in Appendix C. PAH concentrations from the second quarter 2017 through the second quarter of 2018 are presented in Figure 28.

Generally, PCP concentrations in the first half of 2018 are consistent with previous monitoring events, with a significant number of PCP concentrations decreasing from previous monitoring events (see Appendix C). The exceptions (presented in Appendix C) are:

- **MW-18 (Figure C-5):** PCP has been detected in this well since the second quarter of 2017; before then, the well had only one detection (0.13) microgram per liter [ $\mu\text{g}/\text{L}$ ] in September 2016) since 2011. In the third quarter of 2017, the PCP concentration in the well was 23  $\mu\text{g}/\text{L}$ , but has since declined and was not detected during the first or second quarter of 2018. This well is the farthest downgradient intermediate well and is used to define downgradient plume migration.
- **MW-22 (Figure C-5):** Since September 2015, the PCP concentration has generally declined in MW-22 from 130  $\mu\text{g}/\text{L}$  in the first quarter of 2016. Concentrations increased during the first half of 2018 relative to the second half of 2017 but still a general overall decline in PCP concentration. This well is located upgradient of extraction well EW-1, which has been continuously operated since August 2015.

- **MW-24 (Figure C-6):** PCP concentrations exhibited upward trend in the first half of 2018 and have been increasing since the third quarter 2017. Overall concentrations are less than the historical average observed between 2012 and 2016 and have generally decreased since the first quarter 2016. This well is located upgradient of extraction well EW-5, which has been continuously operated since August 2015.
- **MW-31 (Figure C-10):** PCP was detected in this well during the first quarter 2018 at a concentration of 0.99 µg/L but was not detected during the second quarter 2018. PCP concentrations remained stable since the first quarter of 2016. Historically, concentrations have been observed to fluctuate near the reporting limit.
- **MW-40 (Figure C-14):** PCP concentrations exhibited an upward trend during the first half of 2018 with a concentration of 3.5 µg/L in the first quarter and 230 µg/L in the second quarter, but has overall declined since the first quarter of 2016. A similar concentration fluctuation was observed during the first half of 2017 and may be related to seasonal groundwater fluctuations. This well also has an iSOC which may further contribute to fluctuations in concentration.

Multiple wells continued a decreasing trend in PCP concentration for the last several monitoring events. This includes monitoring wells upgradient of the extraction wells (e.g., MW-3, MW-23, MW-25, and MW-33) and monitoring wells downgradient of the recirculation system (e.g., BSX-1, MW-29, MW-34, MW-36, MW-37, and MW-41). The number of wells that show a downward trend of PCP has greatly increased, which likely is caused by the restored operation of the recirculation system. These wells will continue to be observed to determine the effect of the rehabilitation of the recirculation system. Wells farther downgradient of the recirculation system (e.g., MW-41 and MW-42) also have started to benefit from the recirculation system.

Other wells (e.g., MW-24 and MW-40) had fluctuating PCP concentrations, sometimes ranging a couple hundred micrograms per liter over several monitoring events. These fluctuating PCP concentrations could be associated with seasonal changes in groundwater elevation, but also may be associated with changes in gradients because of rehabilitation of the recirculation system. For wells MW-39, MW-40 and MW-41, which have iSOCs, fluctuations may be attributable to operation of the iSOCs.

The extraction well samples were a laboratory composite of discrete groundwater samples from EW-1, EW-2, and EW-4 in the first and second quarters of 2018 that were analyzed for PCP and select breakdown products. The PCP concentration was 280 µg/L for the first quarter of 2018 and 170 µg/L in the second quarter of 2018. The breakdown product 2,4,5-trichlorophenol was not detected during the first or second quarters 2018 sampling. Total tetrachlorophenols were detected at a concentration of 13 µg/L in the first quarter of 2018 and 5.6 µg/L during the second quarter of 2018.

### 4.3 Extraction Wells

Extraction wells EW-01, EW-02, EW-04, and EW-05 were operating continuously during the first and second quarters of 2018 at a cumulative rate of approximately 45 to 50 gpm. Temporary system downtime, approximately two days, was experienced in June due to the replacement of EW-5, EW-6, and EW-7 extraction well vaults.

## 4.4 iSOC Wells

On August 1, 2015, during the recirculation trench rehabilitation, iSOCs were installed in three downgradient deep wells (MW-39, MW-40, and MW-41) to add oxygen to the deeper water-bearing zone. The oxygen from the iSOCs is regularly depleted with at least a portion of that being used for degradation of PCP. The oxygen tanks were replaced in MW-39, MW-40, and MW-41 on February 5, March 18, and June 17.

Since the iSOC installation in August 2015, PCP concentrations generally have decreased in MW-39, MW-40, and MW-41. It is unclear how much of the decrease in concentrations is attributable to the iSOCs versus the recirculation system; both appear to be having a positive effect on reducing PCP concentrations in the groundwater system downgradient of the system.

## 4.5 LNAPL Recovery

The following five wells have sorbent socks to passively absorb LNAPL:

- MW-12
- MW-13
- MW-19
- MW-20
- MW-21

All of the sorbent socks in the recovery wells were inspected on March 16 and June 16, 2018. Based on visual assessment, the sorbent socks in MW-12 and MW-13 needed to be replaced in March and June 2018. Baxter stores spent sorbent socks in a 55-gal satellite drum and arranges for off-site disposal once full. Since the start of the pilot study, it has been observed that the sorbent socks in recovery wells MW-13, MW-19, MW-20, and MW-21 consistently have less product sorbed compared to the sorbent sock in MW-12.

Based on manufacturer's literature, each sorbent sock is able to absorb 2 pounds of LNAPL (0.53 gallon). It is calculated that a total of 2.72 pounds of LNAPL were recovered in the first and second quarters of 2017 (Table 5). This calculation is based on the laboratory-determined mass of the unused portion of the sorbent sock from MW-12 and MW-13 subtracted from the mass of the saturated portion of the sock.

## 4.6 Quality Assurance and Quality Control

Laboratory data validation memoranda were compiled by GSI for the samples collected for the first and second quarter 2018 monitoring events (Appendix D). The memoranda are in agreement with the *Sampling and Analysis Data Management Plan from the Site Investigation Work Plan* (Baxter, 2002). The laboratory data validation memoranda in Appendix D discuss the following samples:

- In the first quarter of 2018, 34 groundwater samples from the monitoring well network (including one duplicate sample), the extraction well laboratory composite sample, and one field blank sample were analyzed by ALS.

- In the second quarter of 2018, 34 groundwater samples from the monitoring well network (including one duplicate sample), the extraction well laboratory composite sample, and one field blank sample were analyzed by ALS.

During the data validation process, GSI determined that the data were fully usable with the addition of the qualifiers specified in Appendix D, Sections 5.1 and 5.2 of the first and second quarter Laboratory Data Validation Memoranda.

## **4.7 Activities Planned for the Second Half of 2018**

Quarterly groundwater monitoring events will continue in the second half of 2018 as outlined in the PMP. These monitoring events will include the same elements discussed in this O&M report: groundwater level measurements, groundwater sampling within the monitoring network and an extraction well composite sample, and inspection of the sorbent socks in the recovery wells.

## **5. References**

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- EPA. 2010. Email message from Jan Palumbo, U.S. Environmental Protection Agency, to RueAnn Thomas, J. Stephan Barnett, and Gary Dupuy re: "Summary of 6/24/2010 Meeting Agreements." July 19, 2010.
- EPA. 2015b. Comments on Remedial Action Pilot Study Operations and Monitoring Report, Fourth Quarter 2014, April Monthly Progress Report, and Response to Request for a Reduction in Reporting. U.S. Environmental Protection Agency. May 18, 2015.

**Tables**

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**Table 1. Groundwater Elevation Summary**Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Well ID	Northing	Easting	Top of Casing Elevation (ft, NAVD88)	Groundwater Elevations (ft, NAVD88)				
				6/10/2017	9/16/2017	12/13/2017	3/17/2018	6/16/2018
BXS-1	427577	1320372.8	142.65	112.99	107.15	106.65	113.45	113.03
BXS-2	427429.1	1320176.6	142.89	112.47	108.19	110.59	116.29	NM
BXS-3	427202.9	1320143.8	142.07	115.19	113.17	NM	NM	NM
BXS-4	426556.4	1320865.9	143.42	128.72	125.02	NM	132.82	NM
MW-1	427352.2	1320826.9	147.44	124.50	118.64	123.74	125.34	125.38
MW-2	428166.9	1320647.4	145.96	110.36	106.04	104.66	111.50	110.86
MW-3	427560.7	1320596.2	146.13	113.20	108.65	106.93	114.13	116.51
MW-4	425935.6	1321013.3	145.02	132.72	130.52	134.02	134.72	134.76
HCMW-5	427010.1	1320692.3	143.75	122.15	116.15	117.25	124.65	124.68
HCMW-6	427887.2	1320815.7	146.36	111.54	111.05	107.36	115.16	115.24
HCMW-7	428230.4	1320337.6	144.73	109.43	105.36	103.63	110.03	109.73
MW-10	427175.1	1320566	144.99	120.49	113.69	114.89	123.49	123.55
MW-11	427398.1	1321001	146.06	121.76	120.76	125.26	126.36	126.74
MW-14	425602.6	1320388.9	141.70	123.50	117.30	120.10	125.90	NM
MW-15	427860	1320310.6	142.22	111.49	107.28	105.82	112.31	111.81
MW-16	428006.8	1320325.6	142.91	110.81	106.67	104.41	111.51	NM
MW-17	427863.6	1320173.9	144.85	110.25	107.22	105.55	111.65	111.62
MW-18	428312.7	1320075.7	142.45	108.53	110.75	103.35	109.34	109.23
MW-22	427395.3	1320573.5	142.75	116.03	116.33	116.13	116.61	115.84
MW-23 <sup>1</sup>	427500	1320578.2	143.18	113.22	111.39	97.18	115.66	114.74
MW-24	427563.9	1320645.1	144.13	113.33	108.83	107.43	114.67	113.71
MW-25	427492.9	1320682	144.98	117.49	114.83	113.28	118.38	117.48
MW-26	427601	1320773	144.75	NM	108.25	107.05	115.21	113.95
MW-27	427677.9	1320702.8	144.31	NM	107.91	107.81	114.67	113.38
MW-28	427502.3	1320488.8	142.77	113.77	109.45	108.27	114.77	107.36
MW-29	427637.7	1320503	142.61	111.81	108.13	106.21	113.81	113.01
MW-30	427836.7	1320483.2	142.4	112.10	107.74	106.50	113.01	112.40
MW-31	427715.8	1320294	140.95	111.91	107.67	106.35	112.81	112.89
MW-32	427493.5	1320670.2	145.01	113.58	109.07	107.71	114.81	113.89
MW-33	427577.4	1320602	143.46	113.19	108.66	106.86	114.16	113.44
MW-34	427647.7	1320498.6	142.6	112.50	108.10	106.30	113.60	112.20
MW-35	427726.8	1320608.7	143.89	112.85	108.28	107.09	113.97	114.07
MW-36	427676.1	1320399.4	141.15	112.41	107.94	106.65	113.24	112.58
MW-37	427969.4	1320251.9	141.96	110.96	106.86	105.16	112.16	111.56
MW-38	427653.6	1320491.4	143.28	112.38	108.08	107.88	113.58	112.84
MW-39	427993.1	1320148.9	142.40	110.38	106.29	104.90	110.88	110.40
MW-40	427859.5	1320316.6	142.1	111.70	107.60	106.30	112.47	112.29
MW-41	427968.1	1320255	141.47	109.77	105.77	103.37	110.17	110.05
MW-42	428319.7	1320080.9	142.68	109.15	105.18	103.28	109.58	109.18
MW-43	428757.5	1319841.1	141.51	105.55	101.81	100.11	105.79	106.09

**Notes**

NM = not measured

MW-38 through MW-42 were installed in July 2010 and MW-43 was installed in October 2010.

<sup>1</sup> Depth to water measurements at MW-23 during Fourth Quarter 2017 monitoring are suspected of measurement error.

**Table 2. Vertical Groundwater Gradients at Monitoring Well Pairs**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Vertical Groundwater Gradient <sup>1,2</sup>	Well Pair	3/8/2017	6/10/2017	9/16/2017	12/13/2017	3/17/2018	6/16/2018
Shallow to Intermediate Zone	MW-25/MW-32	0.3004	0.2663	0.3924	0.3794	0.2432	0.2446
	MW-3/MW-33	-0.0083	0.0006	-0.0006	0.0045	-0.0019	0.1954
	MW-29/MW-34	0.0199	-0.0391	0.0017	-0.0051	0.0119	0.0459
Shallow to Deep Zone	MW-29/MW-38	0.0041	-0.0155	0.0014	-0.0454	0.0062	0.0046
	MW-15/MW-40	-0.0101	-0.0056	0.0000	-0.0128	-0.0043	-0.0128
Intermediate to Deep Zone	MW-37/MW-41	0.0494	0.0490	0.0449	0.0737	0.0819	0.0622

**Notes:**

<sup>1</sup> Vertical groundwater gradients are dimensionless.

<sup>2</sup> Gradients are calculated by shallower aquifer groundwater elevation minus deeper aquifer groundwater elevation divided by the distance between well screen midpoints. Positive values indicate a downward flow direction, while negative values indicate an upward flow direction.

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)	
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2008_01	EW1-EW7	0130-COMP	1/30/2008	130																			
2008_01	MW-15	MW-15	1/8/2008	200	0.013 J	0.0044 U	0.0081 J	0.0086 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.41	0.005 U	0.0035 U	0.4397	
2008_01	MW-16	MW-16	1/8/2008	0.08 U	0.0029 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.0072	
2008_01	MW-17	MW-17	1/8/2008	0.08 U	0.0043 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.0079	
2008_01	MW-18	MW-18	1/7/2008	0.08 U	0.0023 U	0.0049 J	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.0084	
2008_01	MW-2	MW-2	1/8/2008	0.08 U	0.0091 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.006 J	0.005 U	0.0035 U	0.0151	
2008_01	MW-22	MW-22	1/10/2008	130																			
2008_01	MW-23	MW-23	1/10/2008	500																			
2008_01	MW-24	MW-24	1/10/2008	180																			
2008_01	MW-25	MW-25	1/10/2008	230																			
2008_01	MW-26	MW-26	1/9/2008	0.08 U																			
2008_01	MW-27	MW-27	1/10/2008	0.48																			
2008_01	MW-28	MW-28	1/9/2008	0.75																			
2008_01	MW-29	MW-29	1/10/2008	1600																			
2008_01	MW-30	MW-30	1/10/2008	0.08 U																			
2008_01	MW-31	MW-31	1/9/2008	0.08 U																			
2008_01	MW-32	MW-32	1/10/2008	1700																			
2008_01	MW-33	MW-33	1/10/2008	50																			
2008_01	MW-34	MW-34	1/10/2008	1200																			
2008_01	MW-35	MW-35	1/8/2008	0.08 U	0.0026 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0077 J	0.005 U	0.0035 U	0.0103	
2008_01	MW-36	MW-36	1/8/2008	270	0.0035 J	0.012 J	0.0073 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0091 J	0.005 U	0.0035 U	0.0319	
2008_01	MW-37	MW-37	1/8/2008	770	0.011 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.37	0.005 U	0.0035 U	0.381	
2008_01LF	BXS-1	BXS-1	1/9/2008	66	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0067 J	0.005 U	0.0035 U	0.0067	
2008_01LF	BXS-2	BXS-2	1/9/2008	0.08 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.005 J	0.005 U	0.0035 U	0.005	
2008_01LF	MW-3	MW-3	1/9/2008	480	0.019 U	0.041	0.0084 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.017 J	0.0026 U	0.11	0.005 U	0.0035 U	0.1764	
2008_03	BXS-1	BXS-1	2/26/2008	54																			
2008_03	EW1-EW7	EW1-7 COMP	2/27/2008	270																			
2008_03	MW-22	MW-22	2/27/2008	72																			
2008_03	MW-23	MW-23	2/27/2008	450																			
2008_03	MW-24	MW-24	2/27/2008	96																			
2008_03	MW-25	MW-25	2/27/2008	550																			
2008_03	MW-26	MW-26	2/27/2008	0.17 J																			
2008_03	MW-27	MW-27	2/27/2008	0.08 U																			
2008_03	MW-28	MW-28	2/26/2008	0.76																			
2008_03	MW-29	MW-29	2/26/2008	730																			
2008_03	MW-3	MW-3	2/26/2008	2700																			
2008_03	MW-30	MW-30	2/26/2008	0.18 J																			
2008_03	MW-31	MW-31	2/26/2008	0.35																			
2008_03	MW-32	MW-32	2/27/2008	120																			
2008_03	MW-33	MW-33	2/26/2008	400																			
2008_03	MW-34	MW-34	2/26/2008	1900																			
2008_03	MW-37	MW-37	2/26/2008	1100																			
2008_Si	BXS-1	BXS-1	4/30/2008	53	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND	
2008_Si	BXS-1	BXS-1	7/29/2008	27	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND	
2008_Si	BXS-1	BXS-1	10/22/2008	26	0.02	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.02	
2008_Si	BXS-2	BXS-2	4/30/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND	
2008_Si	BXS-2	BXS-2	7/30/2008	0.08 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND	
2008_Si	BXS-2	BXS-2	10/22/2008	0.08 U	0.0095 J	0.0044 U	0.0034 U	0.0036 U	0.012 J	0.0084 J	0.011 J	0.02 U	0.011 J	0.011 J	0.0085 J	0.0044 U	0.0038 U	0.02 U	0.02 U	0.005 U	0.0035 U	0.0714	
2008_Si	EW1-EW7	EW 1-7 Comp.	4/29/2008	240																			
2008_Si	EW1-EW7	Extra Well 1-7	7/29/2008	230																			
2008_Si	EW1-EW7	EW 1-7	10/22/2008	170																			
2008_Si	HCMW-7	HCMW-7	10/20/2008	0.08 U	0.02	0.009 J	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.012 J	0.0092 J	0.0026 U	0.03	0.025	0.0083 J	0.1135	
2008_Si	MW-10	MW-10	4/29/2008	0.08 U																			
2008_Si	MW-10	MW-10	7/29/2008	0.08 U																			
2008_Si	MW-15	MW-15	4/29/2008	200	0.019 U	0.0044 U	0.0087 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.52	0.005 U	0.0035 U	0.5287	
2008_Si	MW-15	MW-15	7/29/2008	190	0.019 U	0.0044 U	0.0076 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.44	0.005 U	0.0035 U	0.4476	
2008_Si	MW-15	MW-15	10/21/2008	230	0.019 U	0.0044 U	0.01 J	0.01 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.5	0.005 U	0.0035 U	0.52	
2008_Si	MW-16	MW-16	4/29/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND	
2008_Si	MW-16	MW-16	7/29/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND	
2008_Si	MW-16	MW-16	10/20/2008	7.3	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.0067 J	0.0035 U	0.0108	
2008_Si	MW-17	MW-17	4/29/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND	
2008_Si	MW-17	MW-17	7/28/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND	
2008_Si	MW-17	MW-17	10/21/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0								

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2008_SI	MW-18	MW-18	4/28/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2008_SI	MW-18	MW-18	7/28/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2008_SI	MW-18	MW-18	10/20/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.0033
2008_SI	MW-2	MW-2	4/29/2008	0.08 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-2	MW-2	7/29/2008	0.08 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-2	MW-2	10/21/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 J	0.0038 U	0.0026 U	0.019 U	0.019 U	0.0035 U	0.0048
2008_SI	MW-22	MW-22	4/29/2008	92																		
2008_SI	MW-22	MW-22	7/29/2008	32																		
2008_SI	MW-22	MW-22	10/21/2008	15																		
2008_SI	MW-23	MW-23	4/29/2008	210																		
2008_SI	MW-23	MW-23	7/29/2008	210																		
2008_SI	MW-23	MW-23	10/21/2008	63																		
2008_SI	MW-24	MW-24	4/29/2008	0.08 U																		
2008_SI	MW-24	MW-24	7/29/2008	0.08 U																		
2008_SI	MW-24	MW-24	10/21/2008	2.2																		
2008_SI	MW-25	MW-25	4/29/2008	240																		
2008_SI	MW-25	MW-25	7/29/2008	84																		
2008_SI	MW-25	MW-25	10/21/2008	57																		
2008_SI	MW-26	MW-26	4/29/2008	0.08 U																		
2008_SI	MW-26	MW-26	7/29/2008	0.08 U																		
2008_SI	MW-26	MW-26	10/21/2008	0.61 U																		
2008_SI	MW-27	MW-27	4/29/2008	0.18 J																		
2008_SI	MW-27	MW-27	7/29/2008	0.08 U																		
2008_SI	MW-27	MW-27	10/21/2008	0.23 U																		
2008_SI	MW-28	MW-28	4/29/2008	0.22																		
2008_SI	MW-28	MW-28	7/28/2008	0.08 U																		
2008_SI	MW-28	MW-28	10/21/2008	0.08 U																		
2008_SI	MW-29	MW-29	4/28/2008	0.08 U																		
2008_SI	MW-29	MW-29	7/28/2008	0.08 U																		
2008_SI	MW-29	MW-29	10/20/2008	7.5																		
2008_SI	MW-3	MW-3	4/29/2008	1200	1.3	0.51	0.14	0.034	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.36	0.0026 U	3.9	0.024	0.0035 U	6.268
2008_SI	MW-3	MW-3	7/29/2008	1800	1.2	0.66	0.15	0.077	0.0026 U	0.0043 U	0.0042 J	0.0029 J	0.0025 U	0.0034 U	0.0025 U	0.0044 U	1.1	0.02 U	6.5	0.048	0.0035 U	9.7421
2008_SI	MW-3	MW-3	10/21/2008	1700	1.2	1	0.22	0.044 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	1.5	0.0026 U	6	0.039 U	0.0035 U	9.92
2008_SI	MW-30	MW-30	4/28/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-30	MW-30	7/28/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.007 J	0.007
2008_SI	MW-30	MW-30	10/21/2008	0.08 U	0.019 U	0.0086 J	0.0034 U	0.0036 U	0.0034 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 J	0.019 U	0.0026 U	0.026 U	0.024 U	0.0042 J	0.0206
2008_SI	MW-31	MW-31	4/28/2008	0.39																		
2008_SI	MW-31	MW-31	7/28/2008	0.18 J																		
2008_SI	MW-31	MW-31	10/21/2008	0.42 U																		
2008_SI	MW-32	MW-32	4/29/2008	180																		
2008_SI	MW-32	MW-32	7/29/2008	290																		
2008_SI	MW-32	MW-32	10/21/2008	390																		
2008_SI	MW-33	MW-33	4/29/2008	3																		
2008_SI	MW-33	MW-33	7/29/2008	140																		
2008_SI	MW-33	MW-33	10/21/2008	250																		
2008_SI	MW-34	MW-34	4/28/2008	320																		
2008_SI	MW-34	MW-34	7/28/2008	39																		
2008_SI	MW-34	MW-34	10/20/2008	270																		
2008_SI	MW-35	MW-35	4/29/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-35	MW-35	7/29/2008	0.08 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2008_SI	MW-35	MW-35	10/21/2008	0.08 U																		
2008_SI	MW-36	MW-36	4/28/2008	130	0.0023 U	0.0044 U	0.0043 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.0043
2008_SI	MW-36	MW-36	7/28/2008	98	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2008_SI	MW-36	MW-36	10/21/2008	63	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2008_SI	MW-37	MW-37	4/29/2008	1000	0.073	0.0044 U	0.016 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	1.5	0.005 U	0.0035 U	1.589
2008_SI	MW-37	MW-37	7/29/2008	760	0.02 U	0.0044 U	0.0034 U	0.022	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.14	0.005 U	0.0035 U	0.162
2008_SI	MW-37	MW-37	10/20/2008	250	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.0083 J	0.005 U	0.0035 U	0.0083
2009_SI	BXS-1	BXS-1	2/10/2009	38 J	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	BXS-1	BXS-1	5/6/2009	81	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	BXS-1	BXS-1	8/5/2009	46	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	BXS-1	BXS-1	11/18/2009	94	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.089 U	0.005 U	0.0035 U	ND
2009_SI	BXS-2	BXS-2	2/10/2009	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	BXS-2	BXS-2	5/6/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0042 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.024 U	0.005 U	0.0035 U	0.0042

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2009_SI	BXS-2	BXS-2	8/5/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.037 U	0.005 U	0.0035 U	ND
2009_SI	BXS-2	BXS-2	11/18/2009	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.089 U	0.005 U	0.0035 U	ND
2009_SI	EW1-EW7	EW 1-7	2/11/2009	210																		
2009_SI	EW1-EW7	EW 1-7	5/7/2009	210																		
2009_SI	HCMW-7	HCMW-7	2/11/2009	0.16 U																		
2009_SI	HCMW-7	HCMW-7	5/4/2009	0.16 U																		
2009_SI	HCMW-7	HCMW-7	8/3/2009	0.16 U																		
2009_SI	HCMW-7	HCMW-7	11/16/2009	0.16 U																		
2009_SI	MW-15	MW-15	2/10/2009	190	0.019 U	0.0055 J	0.0084 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.49	0.005 U	0.0035 U	0.5039
2009_SI	MW-15	MW-15	5/5/2009	98	0.02 U	0.0044 U	0.0055 J	0.0054 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.3	0.005 U	0.0035 U	0.3109
2009_SI	MW-15	MW-15	8/4/2009	95	0.0023 U	0.0044 U	0.0039 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.0039
2009_SI	MW-15	MW-15	11/17/2009	64	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	2/10/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	5/4/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	8/4/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-16	MW-16	11/16/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	2/9/2009	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	5/5/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	8/3/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-17	MW-17	11/17/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	2/10/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	5/4/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	8/3/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-18	MW-18	11/18/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	2/10/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	5/5/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	8/4/2009	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-2	MW-2	11/17/2009	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.072 U	0.005 U	0.0035 U	ND
2009_SI	MW-22	MW-22	2/11/2009	5.5																		
2009_SI	MW-22	MW-22	5/5/2009	3.6																		
2009_SI	MW-22	MW-22	8/4/2009	4.4																		
2009_SI	MW-22	MW-22	11/17/2009	5.4																		
2009_SI	MW-23	MW-23	2/11/2009	170																		
2009_SI	MW-23	MW-23	5/5/2009	140																		
2009_SI	MW-23	MW-23	8/4/2009	70																		
2009_SI	MW-23	MW-23	11/17/2009	8.6																		
2009_SI	MW-24	MW-24	2/11/2009	0.16 U																		
2009_SI	MW-24	MW-24	5/5/2009	0.16 U																		
2009_SI	MW-24	MW-24	8/4/2009	0.35																		
2009_SI	MW-24	MW-24	11/17/2009	0.36 J																		
2009_SI	MW-25	MW-25	2/11/2009	30																		
2009_SI	MW-25	MW-25	5/5/2009	28																		
2009_SI	MW-25	MW-25	8/4/2009	20																		
2009_SI	MW-25	MW-25	11/17/2009	15																		
2009_SI	MW-26	MW-26	2/11/2009	0.16 U																		
2009_SI	MW-26	MW-26	5/5/2009	0.16 U																		
2009_SI	MW-26	MW-26	8/4/2009	0.16 U																		
2009_SI	MW-26	MW-26	11/17/2009	0.16 U																		
2009_SI	MW-27	MW-27	2/11/2009	0.16 U																		
2009_SI	MW-27	MW-27	5/5/2009	0.16 U																		
2009_SI	MW-27	MW-27	8/4/2009	0.16 U																		
2009_SI	MW-27	MW-27	11/17/2009	0.16 U																		
2009_SI	MW-28	MW-28	2/11/2009	0.16 U																		
2009_SI	MW-28	MW-28	5/5/2009	0.16 U																		
2009_SI	MW-28	MW-28	8/4/2009	0.16 U																		
2009_SI	MW-28	MW-28	11/17/2009	0.31 J																		
2009_SI	MW-29	MW-29	2/11/2009	0.16 U																		
2009_SI	MW-29	MW-29	5/5/2009	0.16 U																		
2009_SI	MW-29	MW-29	8/4/2009	0.16 U																		
2009_SI	MW-29	MW-29	11/17/2009	0.16 U																		
2009_SI	MW-3	MW-3	2/10/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-3	MW-3	5/5/2009	4.4	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2009_SI	MW-3	MW-3	8/4/2009	1100	0.019 U	0.0044 U	0.016 J	0.017 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.033

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2009_SI	MW-3	MW-3	11/17/2009	2400	0.86	1.2	0.3	0.04	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	2.2	0.0026 U	3.8	0.1	0.0035 U	8.5
2009_SI	MW-30	MW-30	2/11/2009	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-30	MW-30	5/4/2009	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0028 J	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0044 J	0.0026 U	0.05 U	0.0054 J	0.0035 U	0.0126
2009_SI	MW-30	MW-30	8/3/2009	0.16 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.024 U	0.005 U	0.0035 U	ND
2009_SI	MW-30	MW-30	11/16/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.011 U	0.005 U	0.0035 U	ND
2009_SI	MW-31	MW-31	2/11/2009	0.33																		
2009_SI	MW-31	MW-31	5/5/2009	0.46																		
2009_SI	MW-31	MW-31	8/3/2009	0.16 U																		
2009_SI	MW-31	MW-31	11/17/2009	0.16 U																		
2009_SI	MW-32	MW-32	2/11/2009	200																		
2009_SI	MW-32	MW-32	5/5/2009	950																		
2009_SI	MW-32	MW-32	8/4/2009	1000																		
2009_SI	MW-32	MW-32	11/17/2009	1200																		
2009_SI	MW-33	MW-33	2/11/2009	26 J																		
2009_SI	MW-33	MW-33	5/5/2009	0.16 U																		
2009_SI	MW-33	MW-33	8/4/2009	610																		
2009_SI	MW-33	MW-33	11/17/2009	490																		
2009_SI	MW-34	MW-34	2/11/2009	0.16 U																		
2009_SI	MW-34	MW-34	5/5/2009	0.16 U																		
2009_SI	MW-34	MW-34	8/4/2009	23																		
2009_SI	MW-34	MW-34	11/17/2009	9																		
2009_SI	MW-35	MW-35	2/10/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-35	MW-35	5/5/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2009_SI	MW-35	MW-35	8/4/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.047 U	0.005 U	0.0035 U	ND
2009_SI	MW-35	MW-35	11/17/2009	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.1 U	0.005 U	0.0035 U	ND
2009_SI	MW-36	MW-36	2/9/2009	29	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-36	MW-36	5/5/2009	25	0.0023 U	0.0044 U	0.0034 U	0.0061 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.0061
2009_SI	MW-36	MW-36	8/4/2009	27	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	ND
2009_SI	MW-36	MW-36	11/17/2009	25	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2009_SI	MW-37	MW-37	2/10/2009	770	0.037 U	0.0045 J	0.012 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	1.1	0.005 U	0.0035 U	1.1165
2009_SI	MW-37	MW-37	5/5/2009	750	0.051	0.0044 U	0.011 J	0.016 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	1.2	0.005 U	0.0035 U	1.278
2009_SI	MW-37	MW-37	8/3/2009	320 J	0.0023 U	0.0044 U	0.0034 U	0.011 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.019 U	0.005 U	0.0035 U	0.011
2009_SI	MW-37	MW-37	11/17/2009	160	0.0023 U	0.0044 U	0.0034 U	0.011 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.046 U	0.005 U	0.0035 U	0.011
2010_02SIPMP	BXS-1	BXS-1	2/10/2010	77	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.003 J	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.057	0.005 U	0.0035 U	0.06
2010_02SIPMP	BXS-2	BXS-2	2/10/2010	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.044	0.005 U	0.013 J	0.057
2010_02SIPMP	HCMW-7	HCMW-7	2/8/2010	0.16 U																		
2010_02SIPMP	MW-15	MW-15	2/8/2010	33	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.045	0.005 U	0.0035 U	0.045
2010_02SIPMP	MW-16	MW-16	2/8/2010	0.16 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.043
2010_02SIPMP	MW-17	MW-17	2/8/2010	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	0.05
2010_02SIPMP	MW-18	MW-18	2/8/2010	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0071 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2010_02SIPMP	MW-2	MW-2	2/9/2010	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.047	0.005 U	0.0035 U	0.047
2010_02SIPMP	MW-22	MW-22	2/9/2010	3.9																		
2010_02SIPMP	MW-23	MW-23	2/9/2010	85																		
2010_02SIPMP	MW-24	MW-24	2/9/2010	3.3																		
2010_02SIPMP	MW-25	MW-25	2/9/2010	41																		
2010_02SIPMP	MW-26	MW-26	2/9/2010	0.16 U																		
2010_02SIPMP	MW-27	MW-27	2/9/2010	0.16 U																		
2010_02SIPMP	MW-28	MW-28	2/9/2010	0.16 U																		
2010_02SIPMP	MW-29	MW-29	2/9/2010	0.16 U																		
2010_02SIPMP	MW-3	MW-3	2/9/2010	0.39 J	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.095	0.005 U	0.0035 U	0.095
2010_02SIPMP	MW-30	MW-30	2/8/2010	0.16 U	0.0042 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0091 U	0.0038 U	0.0026 U	0.039	0.005 U	0.0035 U	0.039
2010_02SIPMP	MW-31	MW-31	2/8/2010	0.16 U																		
2010_02SIPMP	MW-32	MW-32	2/9/2010	810																		
2010_02SIPMP	MW-33	MW-33	2/9/2010	0.16 U																		
2010_02SIPMP	MW-34	MW-34	2/9/2010	0.28 J																		
2010_02SIPMP	MW-35	MW-35	2/9/2010	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.039	0.005 U	0.0035 U	0.039
2010_02SIPMP	MW-36	MW-36	2/9/2010	2	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.022	0.005 U	0.0035 U	0.022
2010_02SIPMP	MW-37	MW-37	2/9/2010	390	0.02 U	0.0044 U	0.0065 J	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.36	0.005 U	0.0035 U	0.3665
2010_05SIPMP	BXS-1	BXS-1	5/26/2010	92	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.02 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0045 J	0.0038 U	0.0026 U	0.039 U	0.009 J	0.0037 J	0.017





**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2011_05SIPMP	MW-28	MW-28	5/18/2011	3.6 J																		
2011_05SIPMP	MW-29	MW-29	5/17/2011	0.12 J																		
2011_05SIPMP	MW-3	MW-3	5/16/2011	8.3	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.033 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-30	MW-30	5/16/2011	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-31	MW-31	5/16/2011	0.61																		
2011_05SIPMP	MW-32	MW-32	5/17/2011	83																		
2011_05SIPMP	MW-33	MW-33	5/17/2011	0.07 U																		
2011_05SIPMP	MW-34	MW-34	5/17/2011	50																		
2011_05SIPMP	MW-35	MW-35	5/16/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.023 U	0.005 U	0.0035 U	ND
2011_05SIPMP	MW-36	MW-36	5/15/2011	90	0.0023 U	0.0044 U	0.0034 U	0.0073 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.0073
2011_05SIPMP	MW-37	MW-37	5/16/2011	38	0.0023 U	0.0044 U	0.0034 U	0.0036 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.039 U	0.005 U	0.0035 U	0.0036
2011_05SIPMP	MW-38	MW-38	5/17/2011	0.07 U																		
2011_05SIPMP	MW-39	MW-39	5/16/2011	120																		
2011_05SIPMP	MW-40	MW-40	5/16/2011	420																		
2011_05SIPMP	MW-41	MW-41	5/15/2011	110																		
2011_05SIPMP	MW-42	MW-42	5/16/2011	14																		
2011_05SIPMP	MW-43	MW-43	5/16/2011	0.13 J																		
2011_08SIPMP	BXS-1	BXS-1	8/24/2011	84	0.0028 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.011 J	0.005 U	0.0035 U	0.0138
2011_08SIPMP	BXS-2	BXS-2	8/24/2011	0.07 U	0.0038 J	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0054 J	0.0026 U	0.011 J	0.005 U	0.0035 U	0.0202
2011_08SIPMP	HCMW-7	HCMW-7	8/23/2011	0.12 J																		
2011_08SIPMP	MW-15	MW-15	8/23/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-16	MW-16	8/23/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-17	MW-17	8/23/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-18	MW-18	8/23/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-2	MW-2	8/23/2011	0.07 U	0.02 U	0.0044 U	0.0034 U	0.012 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	0.012
2011_08SIPMP	MW-22	MW-22	8/23/2011	220																		
2011_08SIPMP	MW-23	MW-23	8/23/2011	410																		
2011_08SIPMP	MW-24	MW-24	8/23/2011	70																		
2011_08SIPMP	MW-25	MW-25	8/23/2011	470																		
2011_08SIPMP	MW-26	MW-26	8/24/2011	0.07 U																		
2011_08SIPMP	MW-27	MW-27	8/24/2011	0.07 U																		
2011_08SIPMP	MW-28	MW-28	8/24/2011	10																		
2011_08SIPMP	MW-29	MW-29	8/23/2011	0.11 J																		
2011_08SIPMP	MW-3	MW-3	8/23/2011	14	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-30	MW-30	8/23/2011	0.07 U																		
2011_08SIPMP	MW-31	MW-31	8/23/2011	0.085 J																		
2011_08SIPMP	MW-32	MW-32	8/23/2011	170																		
2011_08SIPMP	MW-33	MW-33	8/24/2011	0.07 U																		
2011_08SIPMP	MW-34	MW-34	8/23/2011	0.07 U																		
2011_08SIPMP	MW-35	MW-35	8/23/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.003 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-36	MW-36	8/22/2011	55	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-37	MW-37	8/23/2011	16	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_08SIPMP	MW-38	MW-38	8/23/2011	0.07 U																		
2011_08SIPMP	MW-39	MW-39	8/23/2011	110																		
2011_08SIPMP	MW-40	MW-40	8/22/2011	400																		
2011_08SIPMP	MW-41	MW-41	8/22/2011	300																		
2011_08SIPMP	MW-42	MW-42	8/23/2011	17																		
2011_08SIPMP	MW-43	MW-43	8/23/2011	0.07 U																		
2011_11SIPMP	BXS-1	BXS-1	11/3/2011	79	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.066	0.005 U	0.0035 U	0.066
2011_11SIPMP	BXS-2	BXS-2	11/3/2011	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.005 J	0.0026 U	0.037	0.005 U	0.0035 U	0.042
2011_11SIPMP	HCMW-7	HCMW-7	11/2/2011	0.07 U																		
2011_11SIPMP	MW-15	MW-15	11/2/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.02 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-16	MW-16	11/1/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-17	MW-17	11/2/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-18	MW-18	11/2/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0035 U	ND
2011_11SIPMP	MW-2	MW-2	11/2/2011	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0045 J	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.046 U	0.005 U	0.0035 U	0.0045
2011_11SIPMP	MW-22	MW-22	11/2/2011	230																		
2011_11SIPMP	MW-23	MW-23	11/2/2011	400																		
2011_11SIPMP	MW-24	MW-24	11/2/2011	5.6																		
2011_11SIPMP	MW-25	MW-25	11/3/2011	310																		
2011_11SIPMP	MW-26	MW-26	11/2/2011	0.14 J																		
2011_11SIPMP	MW-27	MW-27	11/2/2011	0.07 U																		
2011_11SIPMP	MW-28	MW-28	11/3/2011	12																		

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)	
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2011_11SIPMP	MW-29	MW-29	11/2/2011	0.23 J																			
2011_11SIPMP	MW-3	MW-3	11/2/2011	12	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.034 U	0.005 U	0.0035 U	ND	
2011_11SIPMP	MW-30	MW-30	11/2/2011	0.07 U	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.037 U	0.005 U	0.0035 U	ND	
2011_11SIPMP	MW-31	MW-31	11/2/2011	0.084 J																			
2011_11SIPMP	MW-32	MW-32	11/3/2011	700																			
2011_11SIPMP	MW-33	MW-33	11/2/2011	5.9																			
2011_11SIPMP	MW-34	MW-34	11/2/2011	2																			
2011_11SIPMP	MW-35	MW-35	11/2/2011	0.07 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0038 U	0.0026 U	0.07 U	0.005 U	0.0035 U	ND	
2011_11SIPMP	MW-36	MW-36	11/1/2011	59	0.02 U	0.0044 U	0.0034 U	0.007 J	0.0026 U	0.017 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0057 J	0.0026 U	0.051 U	0.012 U	0.0035 U	0.0127	
2011_11SIPMP	MW-37	MW-37	11/2/2011	22	0.02 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.018 U	0.0023 U	0.0029 U	0.0025 U	0.0034 U	0.0025 U	0.0044 U	0.0046 J	0.0026 U	0.039 U	0.011 U	0.0035 U	0.0046	
2011_11SIPMP	MW-38	MW-38	11/2/2011	0.07 U																			
2011_11SIPMP	MW-39	MW-39	11/2/2011	120																			
2011_11SIPMP	MW-40	MW-40	11/1/2011	210																			
2011_11SIPMP	MW-41	MW-41	11/1/2011	340																			
2011_11SIPMP	MW-42	MW-42	11/2/2011	11																			
2011_11SIPMP	MW-43	MW-43	11/2/2011	0.07 U																			
2012_02SIPMP	BXS-1	BXS-1	2/14/2012	78	0.0073 J	0.0057 J	0.02 U	0.0073 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0054 J	0.0056 J	0.02 U	0.031	0.01 J	0.02 U	0.0723	
2012_02SIPMP	BXS-2	BXS-2	2/14/2012	87 U	0.006 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.006 J	0.02 U	0.037	0.02 U	0.02 U	0.049	
2012_02SIPMP	HCMW-7	HCMW-7	2/13/2012	0.2 U																			
2012_02SIPMP	MW-15	MW-15	2/13/2012	0.2 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.043	0.02 U	0.02 U	0.043	
2012_02SIPMP	MW-16	MW-16	2/13/2012	0.2 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	0.048	
2012_02SIPMP	MW-17	MW-17	2/12/2012	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	0.045	
2012_02SIPMP	MW-18	MW-18	2/13/2012	0.2 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	0.044	
2012_02SIPMP	MW-2	MW-2	2/13/2012	0.2 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.043	
2012_02SIPMP	MW-22	MW-22	2/13/2012	300																			
2012_02SIPMP	MW-23	MW-23	2/13/2012	620																			
2012_02SIPMP	MW-24	MW-24	2/14/2012	58																			
2012_02SIPMP	MW-25	MW-25	2/14/2012	390																			
2012_02SIPMP	MW-26	MW-26	2/13/2012	0.16 NJ																			
2012_02SIPMP	MW-27	MW-27	2/13/2012	0.2 U																			
2012_02SIPMP	MW-28	MW-28	2/14/2012	22																			
2012_02SIPMP	MW-29	MW-29	2/13/2012	0.32																			
2012_02SIPMP	MW-3	MW-3	2/14/2012	14	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.024 U	0.02 U	0.02 U	ND	
2012_02SIPMP	MW-30	MW-30	2/13/2012	0.2 U	0.0056 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 J	0.02 U	0.02 U	0.0246	
2012_02SIPMP	MW-31	MW-31	2/13/2012	0.2 U																			
2012_02SIPMP	MW-32	MW-32	2/14/2012	3400																			
2012_02SIPMP	MW-33	MW-33	2/14/2012	51																			
2012_02SIPMP	MW-34	MW-34	2/13/2012	59																			
2012_02SIPMP	MW-35	MW-35	2/13/2012	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.029	0.02 U	0.02 U	0.029	
2012_02SIPMP	MW-36	MW-36	2/12/2012	73	0.0027 J	0.02 U	0.02 U	0.0089 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.051	0.02 U	0.02 U	0.0826	
2012_02SIPMP	MW-37	MW-37	2/13/2012	50	0.02 U	0.02 U	0.0038 J	0.0049 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.043	0.02 U	0.02 U	0.0517	
2012_02SIPMP	MW-38	MW-38	2/13/2012	0.02 U																			
2012_02SIPMP	MW-39	MW-39	2/13/2012	130																			
2012_02SIPMP	MW-40	MW-40	2/12/2012	160																			
2012_02SIPMP	MW-41	MW-41	2/12/2012	220																			
2012_02SIPMP	MW-42	MW-42	2/13/2012	0.071 NJ																			
2012_02SIPMP	MW-43	MW-43	2/13/2012	0.099 NJ																			
2012_05SIPMP	BXS-1	BXS-1	5/2/2012	68	0.0076 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.026	0.019 U	0.019 U	0.0336	
2012_05SIPMP	BXS-2	BXS-2	5/2/2012	0.5 U	0.0086 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.13	0.019 U	0.019 U	0.1386	
2012_05SIPMP	BXS-3	BXS-3	5/2/2012	0.5 U	0.0029 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.044	0.019 U	0.019 U	0.0469	
2012_05SIPMP	BXS-4	BXS-4	5/2/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.034	0.019 U	0.019 U	0.034	
2012_05SIPMP	HCMW-7	HCMW-7	5/1/2012	0.5 U																			
2012_05SIPMP	MW-15	MW-15	4/30/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.004 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.036	0.019 U	0.019 U	0.04	
2012_05SIPMP	MW-16	MW-16	4/30/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.014	
2012_05SIPMP	MW-17	MW-17	4/30/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.019	
2012_05SIPMP	MW-18	MW-18	5/1/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.13	
2012_05SIPMP	MW-2	MW-2	4/30/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.032	0.019 U	0.019 U	0.032	
2012_05SIPMP	MW-22	MW-22	4/30/2012	280																			
2012_05SIPMP	MW-23	MW-23	4/30/2012	580																			
2012_05SIPMP	MW-24	MW-24	4/30/2012	380																			
2012_05SIPMP	MW-25	MW-25	4/30/2012	2800																			
2012_05SIPMP	MW-26	MW-26	4/30/2012	0.16 J																			
2012_05SIPMP	MW-27	MW-27	4/30/2012	0.5 U																			

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)	
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2012_05SIPMP	MW-28	MW-28	4/30/2012	59																			
2012_05SIPMP	MW-29	MW-29	4/30/2012	0.5 U																			
2012_05SIPMP	MW-3	MW-3	4/30/2012	130	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.062	0.019 U	0.019 U	0.062	
2012_05SIPMP	MW-30	MW-30	5/1/2012	0.5 U	0.0049 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0044 J	0.019 U	0.023	0.019 U	0.019 U	0.0323	
2012_05SIPMP	MW-31	MW-31	5/1/2012	0.5 U																			
2012_05SIPMP	MW-32	MW-32	4/30/2012	94																			
2012_05SIPMP	MW-33	MW-33	4/30/2012	0.5 U																			
2012_05SIPMP	MW-34	MW-34	4/30/2012	820																			
2012_05SIPMP	MW-35	MW-35	4/30/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0037 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 J	0.019 U	0.019 U	0.0227
2012_05SIPMP	MW-36	MW-36	4/29/2012	200 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019	0.019 U	0.019 U	0.019	
2012_05SIPMP	MW-37	MW-37	4/30/2012	22	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.021	0.019 U	0.019 U	0.021	
2012_05SIPMP	MW-38	MW-38	4/30/2012	2.3																			
2012_05SIPMP	MW-39	MW-39	5/1/2012	120																			
2012_05SIPMP	MW-40	MW-40	4/29/2012	220 J																			
2012_05SIPMP	MW-41	MW-41	4/29/2012	110 J																			
2012_05SIPMP	MW-42	MW-42	5/1/2012	0.5 U																			
2012_05SIPMP	MW-43	MW-43	5/3/2012	0.5 U																			
2012_08SIPMP	BXS-1	BXS-1	8/21/2012	70	0.019 U	0.019 U	0.019 U	0.0046 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.01 J	0.019 U	0.019 U	0.0146	
2012_08SIPMP	BXS-2	BXS-2	8/21/2012	0.5 U	0.0039 J	0.021 U	0.021 U	0.0066 J	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.0066 J	0.021 U	0.075	0.021 U	0.021 U	0.0921	
2012_08SIPMP	HCMW-7	HCMW-7	8/20/2012	0.5 U																			
2012_08SIPMP	MW-15	MW-15	8/19/2012	0.49 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.091	0.02 U	0.02 U	0.091	
2012_08SIPMP	MW-16	MW-16	8/19/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.004	
2012_08SIPMP	MW-17	MW-17	8/19/2012	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	0.074	
2012_08SIPMP	MW-18	MW-18	8/20/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.036	
2012_08SIPMP	MW-2	MW-2	8/20/2012	0.5 U	0.021 U	0.021 U	0.021 U	0.0058 J	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.021 U	0.099	0.021 U	0.021 U	0.1048	
2012_08SIPMP	MW-22	MW-22	8/20/2012	280																			
2012_08SIPMP	MW-23	MW-23	8/20/2012	450																			
2012_08SIPMP	MW-24	MW-24	8/20/2012	170																			
2012_08SIPMP	MW-25	MW-25	8/20/2012	810																			
2012_08SIPMP	MW-26	MW-26	8/20/2012	0.5 U																			
2012_08SIPMP	MW-27	MW-27	8/20/2012	0.5 U																			
2012_08SIPMP	MW-28	MW-28	8/20/2012	40																			
2012_08SIPMP	MW-29	MW-29	8/20/2012	0.22 J																			
2012_08SIPMP	MW-3	MW-3	8/20/2012	81	0.022 U	0.022 U	0.022 U	0.022 U	0.0034 J	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.08	0.022 U	0.022 U	0.0834	
2012_08SIPMP	MW-30	MW-30	8/19/2012	0.5 U	0.0043 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.04	0.019 U	0.019 U	0.0443	
2012_08SIPMP	MW-31	MW-31	8/19/2012	0.5 U																			
2012_08SIPMP	MW-32	MW-32	8/20/2012	76																			
2012_08SIPMP	MW-33	MW-33	8/20/2012	0.5																			
2012_08SIPMP	MW-34	MW-34	8/19/2012	12 U																			
2012_08SIPMP	MW-35	MW-35	8/20/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.063	0.019 U	0.019 U	0.063	
2012_08SIPMP	MW-36	MW-36	8/19/2012	140	0.02 U	0.02 U	0.02 U	0.0067 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0039 J	0.02 U	0.02 U	0.02 U	0.02 U	0.0106	
2012_08SIPMP	MW-37	MW-37	8/19/2012	13	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.079	0.019 U	0.019 U	0.079	
2012_08SIPMP	MW-38	MW-38	8/19/2012	0.5 U																			
2012_08SIPMP	MW-39	MW-39	8/19/2012	94																			
2012_08SIPMP	MW-40	MW-40	8/19/2012	410																			
2012_08SIPMP	MW-41	MW-41	8/19/2012	200																			
2012_08SIPMP	MW-42	MW-42	8/20/2012	12																			
2012_08SIPMP	MW-43	MW-43	8/20/2012	0.5 U																			
2012_11SIPMP	BXS-1	BXS-1	11/13/2012	42 J	0.026 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0063 J	0.019 U	0.024 U	0.011 U	0.019 U	0.0063	
2012_11SIPMP	BXS-1	BXS-5	11/13/2012	75 J	0.024 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0051 J	0.019 U	0.013 U	0.01 U	0.019 U	0.0051	
2012_11SIPMP	BXS-2	BXS-2	11/13/2012	0.5 U	0.022 U	0.019 U	0.019 U	0.0041 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0088 J	0.019 U	0.035 U	0.013 U	0.019 U	0.0129	
2012_11SIPMP	HCMW-7	HCMW-7	11/12/2012	0.5 U																			
2012_11SIPMP	MW-15	MW-15	11/11/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0058 U	0.019 U	0.019 U	ND	
2012_11SIPMP	MW-16	MW-16	11/12/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND	
2012_11SIPMP	MW-17	MW-17	11/11/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND	
2012_11SIPMP	MW-18	MW-18	11/12/2012	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND	
2012_11SIPMP	MW-2	MW-2	11/12/2012	0.5 U	0.025	0.02 U	0.02 U	0.0055 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.004 J	0.02 U	0.0059 U	0.0086 U	0.02 U	0.0345	
2012_11SIPMP	MW-22	MW-22	11/12/2012	250																			
2012_11SIPMP	MW-23	MW-23	11/12/2012	400																			
2012_11SIPMP	MW-24	MW-24	11/12/2012	0.5 U																			
2012_11SIPMP	MW-25	MW-25	11/12/2012	430																			
2012_11SIPMP	MW-26	MW-26	11/12/2012	0.5 U																			
2012_11SIPMP	MW-27	MW-27	11/12/2012	0.5 U																			

Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2012_11SIPMP	MW-28	MW-28	11/12/2012	43																		
2012_11SIPMP	MW-29	MW-29	11/12/2012	2																		
2012_11SIPMP	MW-3	MW-3	11/12/2012	42	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.005 J	0.02 U	0.011 U	0.0071 U	0.02 U	0.028
2012_11SIPMP	MW-30	MW-30	11/12/2012	0.5 U	0.0043 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.021 U	0.019 U	0.019 U	ND
2012_11SIPMP	MW-31	MW-31	11/11/2012	0.5 U																		
2012_11SIPMP	MW-32	MW-32	11/12/2012	1500																		
2012_11SIPMP	MW-33	MW-33	11/12/2012	38																		
2012_11SIPMP	MW-34	MW-34	11/12/2012	220																		
2012_11SIPMP	MW-35	MW-35	11/12/2012	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.012 U	0.02 U	0.02 U	ND
2012_11SIPMP	MW-36	MW-36	11/11/2012	110	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	ND
2012_11SIPMP	MW-37	MW-37	11/12/2012	38	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0084 U	0.019 U	0.019 U	ND
2012_11SIPMP	MW-38	MW-38	11/12/2012	0.5 U																		
2012_11SIPMP	MW-39	MW-39	11/12/2012	120																		
2012_11SIPMP	MW-40	MW-40	11/11/2012	200																		
2012_11SIPMP	MW-41	MW-41	11/11/2012	220																		
2012_11SIPMP	MW-42	MW-42	11/12/2012	13																		
2012_11SIPMP	MW-43	MW-43	11/13/2012	0.5 U																		
2013_02SIPMP	BXS-1	BXS-1	2/12/2013	56 J	0.0052 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0034 J	0.019 U	0.019 U	0.019 U	0.019 U	0.005 J	0.003 J	0.011 J	0.019 U	0.019 U	0.0276
2013_02SIPMP	BXS-1	BXS-5	2/12/2013	60 J	0.0046 J	0.019 U	0.019 U	0.0066 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0044 J	0.019 U	0.0071 J	0.019 U	0.019 U	0.0227
2013_02SIPMP	BXS-2	BXS-2	2/12/2013	0.5 U	0.0065 J	0.019 U	0.019 U	0.0067 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0055 J	0.019 U	0.014 J	0.019 U	0.01 J	0.0427
2013_02SIPMP	HCMW-7	HCMW-7	2/11/2013	0.5 U																		
2013_02SIPMP	MW-15	MW-15	2/11/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.0038 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.012 J	0.019 U	0.019 U	0.0158
2013_02SIPMP	MW-16	MW-16	2/10/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.0097
2013_02SIPMP	MW-17	MW-17	2/10/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.0075
2013_02SIPMP	MW-18	MW-18	2/11/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.021
2013_02SIPMP	MW-2	MW-2	2/11/2013	0.5 U	0.0063 J	0.019 U	0.019 U	0.0044 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.013 J	0.019 U	0.019 U	0.0237
2013_02SIPMP	MW-22	MW-22	2/11/2013	180 J																		
2013_02SIPMP	MW-23	MW-23	2/11/2013	420 J																		
2013_02SIPMP	MW-24	MW-24	2/11/2013	230 J																		
2013_02SIPMP	MW-24	MW-44	2/11/2013	280 J																		
2013_02SIPMP	MW-25	MW-25	2/11/2013	1700 J																		
2013_02SIPMP	MW-26	MW-26	2/11/2013	0.19 J																		
2013_02SIPMP	MW-27	MW-27	2/11/2013	0.5 U																		
2013_02SIPMP	MW-28	MW-28	2/11/2013	64 J																		
2013_02SIPMP	MW-29	MW-29	2/11/2013	16 J																		
2013_02SIPMP	MW-3	MW-3	2/11/2013	110 J	0.0039 J	0.019 U	0.019 U	0.0068 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.013 J	0.019 U	0.019 U	0.0237
2013_02SIPMP	MW-30	MW-30	2/10/2013	0.5 U	0.0037 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.014 J	0.019 U	0.019 U	0.0177
2013_02SIPMP	MW-31	MW-31	2/11/2013	0.5 U																		
2013_02SIPMP	MW-32	MW-32	2/11/2013	83 J																		
2013_02SIPMP	MW-33	MW-33	2/11/2013	0.5 U																		
2013_02SIPMP	MW-34	MW-34	2/11/2013	590 J																		
2013_02SIPMP	MW-35	MW-35	2/11/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 J	0.019 U	0.019 U	0.024
2013_02SIPMP	MW-36	MW-36	2/10/2013	260 J	0.0043 J	0.019 U	0.019 U	0.012 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0056 J	0.019 U	0.0068 J	0.019 U	0.019 U	0.0287
2013_02SIPMP	MW-37	MW-37	2/10/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0027 J	0.0044 J	0.019 U	0.019 U	0.0071
2013_02SIPMP	MW-38	MW-38	2/11/2013	0.39 J																		
2013_02SIPMP	MW-39	MW-39	2/10/2013	93 J																		
2013_02SIPMP	MW-40	MW-40	2/10/2013	180 J																		
2013_02SIPMP	MW-41	MW-41	2/10/2013	49 J																		
2013_02SIPMP	MW-42	MW-42	2/11/2013	44 J																		
2013_02SIPMP	MW-43	MW-43	2/11/2013	0.5 U																		
2013_06SIPMP	BXS-1	BXS-1	6/4/2013	69	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0096 J	0.019 U	0.019 U	0.0096
2013_06SIPMP	BXS-1	BXS-5	6/4/2013	67	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.028	0.02 U	0.02 U	0.028
2013_06SIPMP	BXS-2	BXS-2	6/4/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.029	0.019 U	0.019 U	0.029
2013_06SIPMP	HCMW-7	HCMW-7	6/3/2013	0.5 U																		
2013_06SIPMP	MW-15	MW-15	6/3/2013	0.63	0.0027 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.04 U	0.02 U	0.02 U	ND
2013_06SIPMP	MW-16	MW-16	6/2/2013	0.5 U	0.0031 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	0.043
2013_06SIPMP	MW-17	MW-17	6/3/2013		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2013_06SIPMP	MW-18	MW-18	6/3/2013	0.5 U	0.0045 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2013_06SIPMP	MW-2	MW-2	6/3/2013	0.5 U	0.0029 U	0.02 U	0.02 U	0.015 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	0.02 U	0.02 U	0.015
2013_06SIPMP	MW-22	MW-22	6/3/2013	160																		
2013_06SIPMP	MW-23	MW-23	6/3/2013	440																		
2013_06SIPMP	MW-24	MW-24	6/3/2013	540																		
2013_06SIPMP	MW-24	MW-44	6/3/2013	480																		

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)	
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2013_06SIPMP	MW-25	MW-25	6/3/2013	2100																			
2013_06SIPMP	MW-26	MW-26	6/3/2013	0.5 U																			
2013_06SIPMP	MW-27	MW-27	6/3/2013	0.5 U																			
2013_06SIPMP	MW-28	MW-28	6/3/2013	34																			
2013_06SIPMP	MW-29	MW-29	6/3/2013	1.6																			
2013_06SIPMP	MW-3	MW-3	6/3/2013	130	0.0025 U	0.02 U	0.02 U	0.0094 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.0094	
2013_06SIPMP	MW-30	MW-30	6/2/2013	0.5 U	0.0047 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.02 U	0.02 U	ND	
2013_06SIPMP	MW-31	MW-31	6/3/2013	0.5 U																			
2013_06SIPMP	MW-32	MW-32	6/3/2013	150																			
2013_06SIPMP	MW-33	MW-33	6/3/2013	0.5 U																			
2013_06SIPMP	MW-34	MW-34	6/3/2013	190																			
2013_06SIPMP	MW-35	MW-35	6/3/2013	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 U	0.02 U	0.02 U	ND	
2013_06SIPMP	MW-36	MW-36	6/3/2013	230	0.02 U	0.02 U	0.02 U	0.014 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0066 U	0.02 U	0.024 U	0.02 U	0.02 U	0.014	
2013_06SIPMP	MW-37	MW-37	6/2/2013	0.5 U	0.02 U	0.02 U	0.02 U	0.0077 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 U	0.02 U	0.02 U	0.0077	
2013_06SIPMP	MW-38	MW-38	6/3/2013	0.5 U																			
2013_06SIPMP	MW-39	MW-39	6/2/2013	95																			
2013_06SIPMP	MW-40	MW-40	6/2/2013	350																			
2013_06SIPMP	MW-41	MW-41	6/2/2013	160	0.0043 U	0.02 U	0.02 U	0.0071 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.054	0.02 U	0.02 U	0.0611	
2013_06SIPMP	MW-42	MW-42	6/3/2013	0.5 U																			
2013_06SIPMP	MW-43	MW-43	6/3/2013	0.5 U																			
2013_08SIPMP	BXS-1	BXS-1	8/27/2013	51	0.0049 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0055 U	0.0026 U	0.14	0.005 U	0.0053 U	0.14	
2013_08SIPMP	BXS-1	BXS-5	8/27/2013	45	0.0045 U	0.0044 U	0.0034 U	0.0099 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0055 U	0.0026 U	0.13	0.005 U	0.0053 U	0.13	
2013_08SIPMP	BXS-2	BXS-2	8/27/2013	0.16 U	0.0073 U	0.0067 U	0.01 J	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0049 U	0.0026 U	0.15	0.005 U	0.0079 J	0.1679	
2013_08SIPMP	HCMW-7	HCMW-7	8/26/2013	0.17 U																			
2013_08SIPMP	MW-15	MW-15	8/26/2013	0.51 N	0.0023 U	0.0044 U	0.0034 U	0.004 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.061	0.005 U	0.0053 U	0.061	
2013_08SIPMP	MW-16	MW-16	8/26/2013	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0053 U	0.13	
2013_08SIPMP	MW-17	MW-17	8/26/2013	0.16 U	0.0027 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0053 U	0.12	
2013_08SIPMP	MW-18	MW-18	8/26/2013	0.16 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.03 U	0.005 U	0.0053 U	0.1	
2013_08SIPMP	MW-2	MW-2	8/26/2013	0.16 U	0.013 U	0.0044 U	0.0034 U	0.013 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.097	0.005 U	0.0053 U	0.097	
2013_08SIPMP	MW-22	MW-22	8/25/2013	130																			
2013_08SIPMP	MW-23	MW-23	8/25/2013	470																			
2013_08SIPMP	MW-24	MW-24	8/25/2013	95																			
2013_08SIPMP	MW-24	MW-44	8/25/2013	87																			
2013_08SIPMP	MW-25	MW-25	8/25/2013	670																			
2013_08SIPMP	MW-26	MW-26	8/25/2013	0.27 J																			
2013_08SIPMP	MW-27	MW-27	8/25/2013	0.3 N																			
2013_08SIPMP	MW-28	MW-28	8/26/2013	21																			
2013_08SIPMP	MW-29	MW-29	8/26/2013	41																			
2013_08SIPMP	MW-3	MW-3	8/25/2013	85																			
2013_08SIPMP	MW-30	MW-30	8/26/2013	0.18 U	0.0048 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.1	0.0051 J	0.0053 U	0.1051	
2013_08SIPMP	MW-31	MW-31	8/26/2013	0.25 J																			
2013_08SIPMP	MW-32	MW-32	8/25/2013	570																			
2013_08SIPMP	MW-33	MW-33	8/25/2013	8.3																			
2013_08SIPMP	MW-34	MW-34	8/26/2013	180																			
2013_08SIPMP	MW-35	MW-35	8/25/2013	0.23 U																			
2013_08SIPMP	MW-36	MW-36	8/25/2013	130																			
2013_08SIPMP	MW-37	MW-37	8/26/2013	4.2																			
2013_08SIPMP	MW-38	MW-38	8/26/2013	0.19 U																			
2013_08SIPMP	MW-39	MW-39	8/26/2013	84																			
2013_08SIPMP	MW-40	MW-40	8/26/2013	470																			
2013_08SIPMP	MW-41	MW-41	8/25/2013	340																			
2013_08SIPMP	MW-42	MW-42	8/26/2013	3.4																			
2013_08SIPMP	MW-43	MW-43	8/26/2013	0.2 U																			
2013_12SIPMP	BXS-1	BXS-1	12/2/2013	57	0.0029 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.042 U	0.02 U	0.02 U	ND	
2013_12SIPMP	BXS-1	BXS-5	12/2/2013	58	0.0031 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.058 U	0.02 U	0.02 U	ND	
2013_12SIPMP	BXS-2	BXS-2	12/2/2013	0.5 U	0.0042 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.057 U	0.019 U	0.019 U	ND	
2013_12SIPMP	HCMW-7	HCMW-7	12/2/2013	0.5 U																			
2013_12SIPMP	MW-15	MW-15	12/2/2013	0.5 U	0.0045 U	0.019 U	0.019 U	0.0077 J	0.0042 U	0.019 U	0.019 U	0.0051 J	0.019 U	0.019 U	0.004 J	0.019 U	0.019 U	0.019 U	0.073 U	0.009 U	0.019 U	0.0168	
2013_12SIPMP	MW-16	MW-16	12/2/2013	0.5 U	0.0031 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.0067 U	0.019 U	ND	
2013_12SIPMP	MW-17	MW-17	12/2/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.0057 U	0.019 U	ND	
2013_12SIPMP	MW-18	MW-18	12/2/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.0061 U	0.019 U	ND	
2013_12SIPMP	MW-2	MW-2	12/2/2013	0.5 U	0.0044 U	0.019 U	0.019 U	0.0072 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.08 U	0.0068 U	0.019 U	0.0072	
2013_12SIPMP	MW-22	MW-22	12/2/2013	130																			

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2013_12SIPMP	MW-23	MW-23	12/1/2013	320																		
2013_12SIPMP	MW-23	MW-44	12/1/2013	350																		
2013_12SIPMP	MW-24	MW-24	12/1/2013	230																		
2013_12SIPMP	MW-25	MW-25	12/1/2013	430																		
2013_12SIPMP	MW-26	MW-26	12/1/2013	0.58 N																		
2013_12SIPMP	MW-27	MW-27	12/1/2013	0.52 N																		
2013_12SIPMP	MW-28	MW-28	12/2/2013	85																		
2013_12SIPMP	MW-29	MW-29	12/2/2013	99																		
2013_12SIPMP	MW-3	MW-3	12/1/2013	100	0.0071 U	0.015 J	0.013 J	0.012 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.058	0.02 U	0.12	0.016 U	0.02 U	0.218
2013_12SIPMP	MW-30	MW-30	12/3/2013	0.5 U	0.0072 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0043 J	0.019 U	0.08	0.0087 U	0.019 U	0.0803
2013_12SIPMP	MW-31	MW-31	12/2/2013	0.5 N																		
2013_12SIPMP	MW-32	MW-32	12/1/2013	1200																		
2013_12SIPMP	MW-33	MW-33	12/2/2013	12																		
2013_12SIPMP	MW-34	MW-34	12/2/2013	590																		
2013_12SIPMP	MW-35	MW-35	12/1/2013	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.054	0.0098 U	0.019 U	0.054
2013_12SIPMP	MW-36	MW-36	12/1/2013	120	0.0039 U	0.019 U	0.019 U	0.017 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0084 J	0.019 U	0.054	0.0087 U	0.019 U	0.0794
2013_12SIPMP	MW-37	MW-37	12/2/2013	24	0.019 U	0.019 U	0.019 U	0.01 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.063 U	0.019 U	0.019 U	0.01
2013_12SIPMP	MW-38	MW-38	12/2/2013	0.42 N																		
2013_12SIPMP	MW-39	MW-39	12/2/2013	58																		
2013_12SIPMP	MW-40	MW-40	12/2/2013	510																		
2013_12SIPMP	MW-41	MW-41	12/1/2013	310																		
2013_12SIPMP	MW-42	MW-42	12/2/2013	5.6																		
2013_12SIPMP	MW-43	MW-43	12/2/2013	0.5 U																		
2014_03SIPMP	BXS-1	BXS-1	3/17/2014	72	0.0089 U	0.015 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.025 U	0.019 U	0.019 U	0.015
2014_03SIPMP	BXS-1	BXS-5	3/17/2014	73	0.0047 U	0.0099 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.041 U	0.019 U	0.019 U	0.0099
2014_03SIPMP	BXS-2	BXS-2	3/17/2014	0.5 U	0.0094 U	0.01 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	0.02 U	0.02 U	0.01
2014_03SIPMP	HCMW-7	HCMW-7	3/17/2014	0.21 N																		
2014_03SIPMP	MW-15	MW-15	3/17/2014	1.3	U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 U	0.019 U	0.019 U	ND
2014_03SIPMP	MW-16	MW-16	3/17/2014	0.17 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2014_03SIPMP	MW-17	MW-17	3/17/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2014_03SIPMP	MW-18	MW-18	3/17/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2014_03SIPMP	MW-2	MW-2	3/16/2014	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.023
2014_03SIPMP	MW-22	MW-22	3/17/2014	94																		
2014_03SIPMP	MW-23	MW-23	3/17/2014	350																		
2014_03SIPMP	MW-24	MW-24	3/16/2014	0.5 U																		
2014_03SIPMP	MW-25	MW-25	3/16/2014	310																		
2014_03SIPMP	MW-26	MW-26	3/16/2014	0.5 U																		
2014_03SIPMP	MW-27	MW-27	3/16/2014	0.31 N																		
2014_03SIPMP	MW-28	MW-28	3/17/2014	57																		
2014_03SIPMP	MW-29	MW-29	3/17/2014	0.5 U																		
2014_03SIPMP	MW-3	MW-3	3/16/2014	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.044	0.02 U	0.02 U	0.044
2014_03SIPMP	MW-30	MW-30	3/17/2014	0.5 U	0.0054 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.024 U	0.019 U	0.019 U	ND
2014_03SIPMP	MW-31	MW-31	3/16/2014	0.29 N																		
2014_03SIPMP	MW-32	MW-32	3/16/2014	510																		
2014_03SIPMP	MW-33	MW-33	3/17/2014	17																		
2014_03SIPMP	MW-33	MW-44	3/17/2014	21																		
2014_03SIPMP	MW-34	MW-34	3/17/2014	110																		
2014_03SIPMP	MW-35	MW-35	3/16/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.033	0.019 U	0.019 U	0.033
2014_03SIPMP	MW-36	MW-36	3/16/2014	150	0.0034 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.029	0.019 U	0.019 U	0.0324
2014_03SIPMP	MW-37	MW-37	3/17/2014	64	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.033 U	0.019 U	0.019 U	ND
2014_03SIPMP	MW-38	MW-38	3/17/2014	0.5 U																		
2014_03SIPMP	MW-39	MW-39	3/17/2014	150																		
2014_03SIPMP	MW-40	MW-40	3/17/2014	450																		
2014_03SIPMP	MW-41	MW-41	3/16/2014	340																		
2014_03SIPMP	MW-42	MW-42	3/17/2014	5.4																		
2014_03SIPMP	MW-43	MW-43	3/17/2014	0.5 U																		
2014_06SIPMP	BXS-1	BXS-1	6/2/2014	67	0.019 U	0.019 U	0.019 U	0.0099 J	0.0048 J	0.019 U	0.019 U	0.0069 J	0.019 U	0.0036 J	0.0033 J	0.019 U	0.019 U	0.0045 J	0.029 U	0.019 U	0.019 U	0.033
2014_06SIPMP	BXS-1	BXS-5	6/2/2014	59	0.019 U	0.019 U	0.019 U	0.0096 J	0.0038 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.0134
2014_06SIPMP	BXS-2	BXS-2	6/2/2014	0.5 U	0.02 U	0.02 U	0.0093 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.044 U	0.02 U	0.02 U	0.0093
2014_06SIPMP	HCMW-7	HCMW-7	6/2/2014	NA																		
2014_06SIPMP	MW-15	MW-15	6/2/2014	3.1	0.019 U	0.019 U	0.019 U	0.0051 J	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.036 U	0.019 U	0.019 U	0.0051
2014_06SIPMP	MW-16	MW-16	6/1/2014	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0029 J	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U	0.02 U	0.0229
2014_06SIPMP	MW-17	MW-17	6/1/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.03 U	0.019 U	0.019 U	0.044

Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2014_06SIPMP	MW-18	MW-18	6/2/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.03 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-2	MW-2	6/1/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.0055 J	0.005 J	0.019 U	0.019 U	0.019 UJ	0.0044 J	0.0056 J	0.012 J	0.019 U	0.019 U	0.0049 J	0.013 J	0.019 U	0.019 U	0.0504
2014_06SIPMP	MW-22	MW-22	6/1/2014	73																		
2014_06SIPMP	MW-23	MW-23	6/1/2014	300																		
2014_06SIPMP	MW-24	MW-24	6/1/2014	64																		
2014_06SIPMP	MW-25	MW-25	6/1/2014	280																		
2014_06SIPMP	MW-26	MW-26	6/1/2014	0.5 U																		
2014_06SIPMP	MW-27	MW-27	6/1/2014	0.5 U																		
2014_06SIPMP	MW-28	MW-28	6/2/2014	65																		
2014_06SIPMP	MW-29	MW-29	6/1/2014	0.49 J																		
2014_06SIPMP	MW-3	MW-3	6/1/2014	11	0.0025 J	0.019 U	0.019 U	0.0065 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.037	0.019 U	0.019 U	0.046
2014_06SIPMP	MW-30	MW-30	6/2/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	ND
2014_06SIPMP	MW-31	MW-31	6/1/2014	0.19 J																		
2014_06SIPMP	MW-32	MW-32	6/1/2014	220																		
2014_06SIPMP	MW-33	MW-33	6/1/2014	0.5 U																		
2014_06SIPMP	MW-33	MW-49	6/1/2014	0.5 U																		
2014_06SIPMP	MW-34	MW-34	6/1/2014	270																		
2014_06SIPMP	MW-35	MW-35	6/1/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019	0.019 U	0.019 U	0.019
2014_06SIPMP	MW-36	MW-36	6/2/2014	130	0.019 U	0.019 U	0.019 U	0.011 J	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019	0.019 U	0.019 U	0.03
2014_06SIPMP	MW-37	MW-37	6/2/2014	41	0.019 U	0.019 U	0.019 U	0.0058 J	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019	0.019 U	0.019 U	0.0248
2014_06SIPMP	MW-38	MW-38	6/1/2014	0.5 U																		
2014_06SIPMP	MW-39	MW-39	6/2/2014	NA																		
2014_06SIPMP	MW-40	MW-40	6/1/2014	560																		
2014_06SIPMP	MW-41	MW-41	6/2/2014	320																		
2014_06SIPMP	MW-42	MW-42	6/2/2014	7.9																		
2014_06SIPMP	MW-43	MW-43	6/2/2014	0.5 U																		
2014_09SIPMP	BXS-1	BXS-1	9/29/2014	49	0.02 U	0.02 U	0.02 U	0.0082 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.013 J	0.02 U	0.02 U	0.0212
2014_09SIPMP	BXS-1	BXS-5	9/29/2014	43	0.0024 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 J	0.019 U	0.019 U	0.0214
2014_09SIPMP	BXS-2	BXS-2	9/29/2014	0.5 U	0.02 U	0.02 U	0.02 U	0.011 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 J	0.02 U	0.02 U	0.031
2014_09SIPMP	HCMW-7	HCMW-7	9/29/2014	0.5 U																		
2014_09SIPMP	MW-15	MW-15	9/29/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.02	0.019 U	0.019 U	0.02
2014_09SIPMP	MW-16	MW-16	9/28/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0028 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.0198
2014_09SIPMP	MW-17	MW-17	9/28/2014	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	0.021
2014_09SIPMP	MW-18	MW-18	9/28/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.015
2014_09SIPMP	MW-2	MW-2	9/28/2014	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0026 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 J	0.02 U	0.02 U	0.0206
2014_09SIPMP	MW-22	MW-22	9/28/2014	140																		
2014_09SIPMP	MW-23	MW-23	9/28/2014	230																		
2014_09SIPMP	MW-24	MW-24	9/28/2014	280																		
2014_09SIPMP	MW-25	MW-25	9/28/2014	180																		
2014_09SIPMP	MW-26	MW-26	9/28/2014	0.22 J																		
2014_09SIPMP	MW-27	MW-27	9/28/2014	0.5 U																		
2014_09SIPMP	MW-28	MW-28	9/29/2014	13																		
2014_09SIPMP	MW-29	MW-29	9/28/2014	170																		
2014_09SIPMP	MW-3	MW-3	9/28/2014	8	0.0032 J	0.02 U	0.02 U	0.02 U	0.0032 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.017 J	0.02 U	0.02 U	0.0234
2014_09SIPMP	MW-30	MW-30	9/28/2014	0.5 U	0.011 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0075 J	0.019 U	0.02 U	0.0075 J	0.019 U	0.026
2014_09SIPMP	MW-31	MW-31	9/28/2014	0.29 J																		
2014_09SIPMP	MW-32	MW-32	9/28/2014	480																		
2014_09SIPMP	MW-33	MW-33	9/28/2014	23																		
2014_09SIPMP	MW-33	MW-45	9/28/2014	21																		
2014_09SIPMP	MW-34	MW-34	9/28/2014	900																		
2014_09SIPMP	MW-35	MW-35	9/28/2014	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.025	0.019 U	0.019 U	0.025
2014_09SIPMP	MW-36	MW-36	9/29/2014	120	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.016 J	0.019 U	0.019 U	0.016
2014_09SIPMP	MW-37	MW-37	9/29/2014	65	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.02	0.019 U	0.019 U	0.02
2014_09SIPMP	MW-38	MW-38	9/28/2014	0.5 U																		
2014_09SIPMP	MW-39	MW-39	9/29/2014	120																		
2014_09SIPMP	MW-40	MW-40	9/29/2014	290																		
2014_09SIPMP	MW-41	MW-41	9/29/2014	410																		
2014_09SIPMP	MW-42	MW-42	9/29/2014	6.5																		
2014_09SIPMP	MW-43	MW-43	9/29/2014	0.5 U																		
2014_11SIPMP	BXS-1	BXS-1	11/17/2014	40	0.019	0.019 U	0.019 U	0.0072 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0072 J
2014_11SIPMP	BXS-1	BXS-5	11/17/2014	50	0.019 U	0.019 UJ	0.019 U	0.0083 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0055 J	0.019 U	0.036 U	0.019 U	0.019 U	0.0138 J
2014_11SIPMP	BXS-2	BXS-2	11/17/2014	0.5 U	0.019 U	0.0059 NJ	0.019 U	0.0074 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.045 U	0.019 U	0.019 U	0.0133 J
2014_11SIPMP	HCMW-7	HCMW-7	11/17/2014	0.5 U																		



Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018

Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2015_09SIPMP	BXS-1	BXS-5	9/14/2015	91	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	ND
2015_09SIPMP	BXS-2	BXS-2	9/14/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.02 U	0.02 U	ND
2015_09SIPMP	HCMW-5	HCMW-5	9/14/2015	0.5 U																		
2015_09SIPMP	HCMW-6	HCMW-6	9/14/2015	0.5 U																		
2015_09SIPMP	HCMW-7	HCMW-7	9/14/2015	0.5 U																		
2015_09SIPMP	MW-1	MW-1	9/14/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0042 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	0.0042 J
2015_09SIPMP	MW-10	MW-10	9/14/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-14	MW-14	9/14/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-15	MW-15	9/14/2015	1.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0044 J	0.022 U	0.019 U	0.019 U	0.0126 J
2015_09SIPMP	MW-16	MW-16	9/14/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-17	MW-17	9/13/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-18	MW-18	9/14/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-2	MW-2	9/13/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.02 U	0.02 U	ND
2015_09SIPMP	MW-22	MW-22	9/13/2015	380																		
2015_09SIPMP	MW-23	MW-23	9/13/2015	110																		
2015_09SIPMP	MW-24	MW-24	9/13/2015	87																		
2015_09SIPMP	MW-25	MW-25	9/13/2015	110																		
2015_09SIPMP	MW-26	MW-26	9/13/2015	0.5 U																		
2015_09SIPMP	MW-27	MW-27	9/13/2015	0.5 U																		
2015_09SIPMP	MW-28	MW-28	9/13/2015	0.9 U																		
2015_09SIPMP	MW-28	MW-44	9/13/2015	0.5 U																		
2015_09SIPMP	MW-29	MW-29	9/13/2015	11																		
2015_09SIPMP	MW-3	MW-3	9/13/2015	1500	0.02 U	0.18	0.028 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.33	0.02 U	0.022 U	0.02 U	0.02 U	0.51
2015_09SIPMP	MW-30	MW-30	9/14/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.02 U	0.02 U	ND
2015_09SIPMP	MW-31	MW-31	9/13/2015	0.5 U																		
2015_09SIPMP	MW-32	MW-32	9/13/2015	500																		
2015_09SIPMP	MW-33	MW-33	9/13/2015	52																		
2015_09SIPMP	MW-34	MW-34	9/13/2015	100																		
2015_09SIPMP	MW-35	MW-35	9/13/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-36	MW-36	9/14/2015	86	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.022 U	0.019 U	0.019 U	ND
2015_09SIPMP	MW-37	MW-37	9/14/2015	0.65 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.031 U	0.02 U	ND
2015_09SIPMP	MW-38	MW-38	9/13/2015	0.5 U																		
2015_09SIPMP	MW-39	MW-39	9/14/2015	21																		
2015_09SIPMP	MW-4	MW-4	9/14/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022 U	0.03 U	0.02 U	ND
2015_09SIPMP	MW-40	MW-40	9/14/2015	520																		
2015_09SIPMP	MW-41	MW-41	9/14/2015	420 J+																		
2015_09SIPMP	MW-42	MW-42	9/14/2015	5.9																		
2015_09SIPMP	MW-43	MW-43	9/14/2015	0.5 U																		
2015_12SIPMP	BXS-1	BXS-1	12/7/2015	83	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2015_12SIPMP	BXS-1	BXS-5	12/7/2015	84	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2015_12SIPMP	BXS-2	BXS-2	12/7/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2015_12SIPMP	HCMW-7	HCMW-7	12/7/2015	0.5 U																		
2015_12SIPMP	MW-15	MW-15	12/6/2015	1.7	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_12SIPMP	MW-16	MW-16	12/6/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_12SIPMP	MW-17	MW-17	12/6/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2015_12SIPMP	MW-18	MW-18	12/7/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_12SIPMP	MW-2	MW-2	12/6/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_12SIPMP	MW-22	MW-22	12/6/2015	37																		
2015_12SIPMP	MW-23	MW-23	12/6/2015	84																		
2015_12SIPMP	MW-24	MW-24	12/6/2015	60																		
2015_12SIPMP	MW-25	MW-25	12/6/2015	55																		
2015_12SIPMP	MW-26	MW-26	12/6/2015	0.5 U																		
2015_12SIPMP	MW-27	MW-27	12/6/2015	0.5 U																		
2015_12SIPMP	MW-28	MW-28	12/7/2015	0.68 U																		
2015_12SIPMP	MW-29	MW-29	12/6/2015	2.4																		
2015_12SIPMP	MW-3	MW-3	12/6/2015	280	0.019 U	0.038 U	0.038 J	0.004 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.13	0.019 U	0.03 U	0.025 U	0.019 U	0.172
2015_12SIPMP	MW-30	MW-30	12/7/2015	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.02 U	ND
2015_12SIPMP	MW-31	MW-31	12/6/2015	0.5 U																		
2015_12SIPMP	MW-32	MW-32	12/6/2015	130																		
2015_12SIPMP	MW-33	MW-33	12/6/2015	55																		
2015_12SIPMP	MW-34	MW-34	12/6/2015	54																		
2015_12SIPMP	MW-35	MW-35	12/6/2015	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND
2015_12SIPMP	MW-36	MW-36	12/7/2015	31	0.03 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	ND

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)	
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2015_12SIPMP	MW-37	MW-37	12/7/2015	59	0.019 U	0.019 U	0.019 U	0.0037 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.03 U	0.019 U	0.019 U	0.0037 J	
2015_12SIPMP	MW-38	MW-38	12/6/2015	0.5 U																			
2015_12SIPMP	MW-39	MW-39	12/7/2015	24																			
2015_12SIPMP	MW-40	MW-40	12/7/2015	800																			
2015_12SIPMP	MW-41	MW-41	12/7/2015	430																			
2015_12SIPMP	MW-42	MW-42	12/7/2015	7.2																			
2015_12SIPMP	MW-43	MW-43	12/7/2015	0.5 U																			
2016_02SIPMP	BXS-1	BXS-1	2/29/2016	64	0.019 U	0.019 U	0.019 U	0.0079 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0095 J	0.019 U	0.0174 J
2016_02SIPMP	BXS-1	BXS-5	2/29/2016	64	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	ND
2016_02SIPMP	BXS-2	BXS-2	2/29/2016	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2016_02SIPMP	HCMW-7	HCMW-7	2/29/2016	0.5 U																			
2016_02SIPMP	MW-15	MW-15	2/29/2016	2.6	0.019 U	0.019 U	0.019 U	0.019 U	0.0029 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0029 J	
2016_02SIPMP	MW-16	MW-16	2/29/2016	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0029 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0029 J	
2016_02SIPMP	MW-17	MW-17	2/28/2016	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	ND
2016_02SIPMP	MW-18	MW-18	2/29/2016	0.5 U	0.031	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0041 J	0.019 U	0.019 U	0.0056 J	0.019 U	0.0407 J	
2016_02SIPMP	MW-2	MW-2	2/28/2016	0.5 U	0.019 U	0.019 U	0.019 U	0.0062 J	0.0027 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0089 J	
2016_02SIPMP	MW-22	MW-22	2/28/2016	130																			
2016_02SIPMP	MW-23	MW-23	2/28/2016	100																			
2016_02SIPMP	MW-24	MW-24	2/28/2016	210																			
2016_02SIPMP	MW-24	MW-44	2/28/2016	200																			
2016_02SIPMP	MW-25	MW-25	2/28/2016	380																			
2016_02SIPMP	MW-26	MW-26	2/28/2016	0.49 J																			
2016_02SIPMP	MW-27	MW-27	2/28/2016	0.5 U																			
2016_02SIPMP	MW-28	MW-28	2/29/2016	0.5 U																			
2016_02SIPMP	MW-29	MW-29	2/28/2016	0.5 U																			
2016_02SIPMP	MW-3	MW-3	2/28/2016	1.1	0.019 U	0.019 U	0.019 U	0.019 U	0.0035 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0035 J	
2016_02SIPMP	MW-30	MW-30	2/28/2016	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.019 U	0.02 U	0.02 U	0.02 U	ND
2016_02SIPMP	MW-31	MW-31	2/29/2016	1.1																			
2016_02SIPMP	MW-32	MW-32	2/28/2016	47																			
2016_02SIPMP	MW-33	MW-33	2/28/2016	4.3																			
2016_02SIPMP	MW-34	MW-34	2/28/2016	0.5 U																			
2016_02SIPMP	MW-35	MW-35	2/28/2016	0.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	ND
2016_02SIPMP	MW-36	MW-36	2/28/2016	140	0.035	0.019 U	0.019 U	0.0096 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.0091 J	0.019 U	0.019 U	0.0055 J	0.019 U	0.0592 J	
2016_02SIPMP	MW-37	MW-37	2/28/2016	4.7	0.019 U	0.019 U	0.019 U	0.019 U	0.003 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.003 J	
2016_02SIPMP	MW-38	MW-38	2/28/2016	0.5 U																			
2016_02SIPMP	MW-39	MW-39	2/29/2016	110																			
2016_02SIPMP	MW-40	MW-40	2/29/2016	360																			
2016_02SIPMP	MW-41	MW-41	2/29/2016	380																			
2016_02SIPMP	MW-42	MW-42	2/29/2016	42																			
2016_02SIPMP	MW-43	MW-43	2/29/2016	0.5 U																			
2016_06SIPMP	BXS-1	BXS-1	6/6/2016	60	0.009 J	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	0.009 J	
2016_06SIPMP	BXS-1	BXS-5	6/6/2016	59	0.0096 J	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.05 U	0.076 U	0.019 U	0.0096 J	
2016_06SIPMP	BXS-2	BXS-2	6/6/2016	1.3 U	0.0072 J	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.033 U	0.076 U	0.019 U	0.0072 J	
2016_06SIPMP	HCMW-7	HCMW-7	6/6/2016	1.3 U																			
2016_06SIPMP	MW-15	MW-15	6/6/2016	2.9 U	0.019 U	0.0059 J	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	0.0059 J	
2016_06SIPMP	MW-16	MW-16	6/5/2016	1.3 U	0.019 U	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	ND	
2016_06SIPMP	MW-17	MW-17	6/5/2016	1.3 U	0.019 U	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	ND	
2016_06SIPMP	MW-18	MW-18	6/6/2016	1.3 U	0.019 U	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	ND	
2016_06SIPMP	MW-2	MW-2	6/5/2016	1.3 U	0.019 U	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	ND	
2016_06SIPMP	MW-22	MW-22	6/6/2016	81																			
2016_06SIPMP	MW-23	MW-23	6/5/2016	110																			
2016_06SIPMP	MW-24	MW-24	6/5/2016	96																			
2016_06SIPMP	MW-25	MW-25	6/5/2016	800																			
2016_06SIPMP	MW-26	MW-26	6/5/2016	1.3 U																			
2016_06SIPMP	MW-27	MW-27	6/5/2016	1.3 U																			
2016_06SIPMP	MW-28	MW-28	6/6/2016	1.3 U																			
2016_06SIPMP	MW-29	MW-29	6/5/2016	1.3 U																			
2016_06SIPMP	MW-3	MW-3	6/5/2016	25	0.019 U	0.019 U	0.019 U	0.048 U	0.0031 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	0.0031 J	
2016_06SIPMP	MW-30	MW-30	6/6/2016	1.3 U	0.019 U	0.019 U	0.019 U	0.048 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.049 U	0.076 U	0.019 U	ND	
2016_06SIPMP	MW-31	MW-31	6/5/2016	1.3 U																			
2016_06SIPMP	MW-32	MW-32	6/5/2016	56																			
2016_06SIPMP	MW-33	MW-33	6/5/2016	9.9																			
2016_06SIPMP	MW-33	MW-44	6/5/2016	10																			



**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)	
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2016_11SIPMP	MW-32	MW-32	11/7/2016	530																			
2016_11SIPMP	MW-33	MW-33	11/7/2016	23																			
2016_11SIPMP	MW-34	MW-34	11/8/2016	6.7																			
2016_11SIPMP	MW-35	MW-35	11/8/2016	0.071 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0027 J	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.0038 U	0.005 U	0.0053 U	0.0027 J	
2016_11SIPMP	MW-36	MW-36	11/8/2016	24	0.042 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.0038 U	0.005 U	0.0053 U	ND	
2016_11SIPMP	MW-37	MW-37	11/7/2016	41	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.0038 U	0.005 U	0.0053 U	ND	
2016_11SIPMP	MW-38	MW-38	11/8/2016	0.071 U																			
2016_11SIPMP	MW-39	MW-39	11/8/2016	32																			
2016_11SIPMP	MW-40	MW-40	11/8/2016	70																			
2016_11SIPMP	MW-41	MW-41	11/8/2016	92																			
2016_11SIPMP	MW-42	MW-42	11/8/2016	19																			
2016_11SIPMP	MW-43	MW-43	11/8/2016	0.14 U																			
2016_11SIPMP	MW-44	MW-44	11/8/2016	0.071 U																			
2017_03SIPMP	BXS-1	BXS-1	3/8/2017	49																			
2017_03SIPMP	BXS-1	BXS-5	3/8/2017	41																			
2017_03SIPMP	BXS-2	BXS-2	3/8/2017	0.071 U																			
2017_03SIPMP	BXS-3	BXS-3	3/8/2017	0.071 U																			
2017_03SIPMP	BXS-4	BXS-4	3/8/2017	0.75																			
2017_03SIPMP	HCMW-7	HCMW-7	3/8/2017	0.23 J																			
2017_03SIPMP	MW-15	MW-15	3/7/2017	0.071 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-16	MW-16	3/7/2017	0.071 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-17	MW-17	3/7/2017	0.071 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-18	MW-18	3/7/2017	0.071 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	0.0138 J	
2017_03SIPMP	MW-2	MW-2	3/6/2017	0.071 U																			
2017_03SIPMP	MW-22	MW-22	3/6/2017	45																			
2017_03SIPMP	MW-23	MW-23	3/6/2017	49																			
2017_03SIPMP	MW-24	MW-24	3/6/2017	38																			
2017_03SIPMP	MW-26	MW-26	3/6/2017	0.071 U																			
2017_03SIPMP	MW-27	MW-27	3/6/2017	0.071 U																			
2017_03SIPMP	MW-28	MW-28	3/6/2017	0.57																			
2017_03SIPMP	MW-29	MW-29	3/7/2017	0.071 U																			
2017_03SIPMP	MW-3	MW-3	3/6/2017	41	0.0023 U	0.0044 U	0.0034 U	0.0041 J	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.0038 U	0.005 U	0.0053 U	0.0041 J	
2017_03SIPMP	MW-30	MW-30	3/7/2017	0.071 U	0.019 U	0.0044 U	0.0034 U	0.0036 U	0.019 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-31	MW-31	3/7/2017	0.56																			
2017_03SIPMP	MW-31	MW-44	3/7/2017	0.56																			
2017_03SIPMP	MW-32	MW-32	3/6/2017	96																			
2017_03SIPMP	MW-33	MW-33	3/6/2017	0.071 U																			
2017_03SIPMP	MW-34	MW-34	3/7/2017	0.65																			
2017_03SIPMP	MW-35	MW-35	3/6/2017	0.071 U	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.0038 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-36	MW-36	3/7/2017	8	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-37	MW-37	3/7/2017	28	0.0023 U	0.0044 U	0.0034 U	0.0036 U	0.0026 U	0.0043 U	0.0041 U	0.0029 U	0.003 U	0.0034 U	0.0025 U	0.01 U	0.0038 U	0.0026 U	0.035 U	0.005 U	0.0053 U	ND	
2017_03SIPMP	MW-38	MW-38	3/7/2017	0.071 U																			
2017_03SIPMP	MW-39	MW-39	3/7/2017	1.2																			
2017_03SIPMP	MW-40	MW-40	3/7/2017	54																			
2017_03SIPMP	MW-41	MW-41	3/7/2017	270																			
2017_03SIPMP	MW-42	MW-42	3/7/2017	18																			
2017_03SIPMP	MW-43	MW-43	3/8/2017	1.2																			
2017_06SIPMP	BXS-1	BXS-1	7/11/2017	0.8	0.033 J+	0.0084 J+	0.0042 J+	0.0017 J+	0.0027 J+	0.0011 U	0.00083 U	0.0023 J+	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.015 J+	0.0012 J+	0.33 J+	0.022 U	0.0019 J+	0.3894 J+	
2017_06SIPMP	BXS-2	BXS-2	6/21/2017	67	0.13 U	0.02 U	0.02 U	0.005 J	0.02 U	0.0011 U	0.00083 U	0.0015 J	0.00094 U	0.00084 J	0.0013 U	0.0012 J	0.02 U	0.001 J	2.9 U	0.02 U	0.02 U	0.00954 J	
2017_06SIPMP	HCMW-7	HCMW-7	6/22/2017	0.5 U																			
2017_06SIPMP	MW-15	MW-15	6/22/2017	0.88	0.13 U	0.02 U	0.02 U	0.0014 J	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.0048 J	0.0011 U	0.00089 U	2.9 U	0.02 U	0.001 U	0.0062 J	
2017_06SIPMP	MW-16	MW-16	6/22/2017	0.5 U	0.13 U	0.02 U	0.02 U	0.00082 U	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0011 U	0.00089 U	2.9 U	0.02 U	0.001 U	ND	
2017_06SIPMP	MW-17	MW-17	6/22/2017	0.5 U	0.13 U	0.02 U	0.02 U	0.00082 U	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0011 U	0.00089 U	2.9 U	0.02 U	0.001 U	ND	
2017_06SIPMP	MW-18	MW-18	6/22/2017	3.3	0.13 U	0.02 U	0.02 U	0.00082 U	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0018 J	0.00089 U	2.9 U	0.02 U	0.02 U	ND	
2017_06SIPMP	MW-2	MW-2	6/22/2017	0.11 U	0.041 J+	0.0088 J+	0.006 J+	0.00082 U	0.0022 J+	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.015 J+	0.00089 U	0.43 J+	0.02 U	0.001 U	0.503 J+	
2017_06SIPMP	MW-22	MW-22	6/22/2017	44																			
2017_06SIPMP	MW-23	MW-23	6/22/2017	0.5 U																			
2017_06SIPMP	MW-24	MW-24	6/22/2017	84																			
2017_06SIPMP	MW-25	MW-25	6/22/2017	330																			
2017_06SIPMP	MW-28	MW-28	6/22/2017	0.5 U																			
2017_06SIPMP	MW-29	MW-29	6/22/2017	0.5 U																			
2017_06SIPMP	MW-3	MW-3	6/22/2017	73	0.13 U	0.02 U	0.02 U	0.00082 U	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0021 J+	0.00089 U	2.9 U	0.02 U	0.001 U	0.0021 J+	
2017_06SIPMP	MW-30	MW-30	6/22/2017	0.5 U	0.13 U	0.02 U	0.02 U	0.00082 U	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0012 J	0.00089 U	2.9 U	0.02 U	0.001 U	0.0012 J	

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2017_06SIPMP	MW-31	MW-31	6/22/2017	1.8																		
2017_06SIPMP	MW-32	MW-32	6/23/2017	190																		
2017_06SIPMP	MW-33	MW-33	6/22/2017	0.5 U																		
2017_06SIPMP	MW-34	MW-34	6/22/2017	0.76																		
2017_06SIPMP	MW-35	MW-35	6/22/2017	0.5 U	0.049 J+	0.013 J+	0.0068 J+	0.00082 U	0.0023 J+	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.02 J+	0.00089 U	0.51 J+	0.02 U	0.001 U	0.6011 J+
2017_06SIPMP	MW-36	MW-36	6/22/2017	0.58	0.13 U	0.02 U	0.02 U	0.00082 U	0.2 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0011 U	0.00089 U	2.9 U	0.02 U	0.001 U	ND
2017_06SIPMP	MW-37	MW-37	6/22/2017	29	0.02 U	0.02 U	0.02 U	0.00082 U	0.02 U	0.0011 U	0.00083 U	0.00086 U	0.00094 U	0.00076 U	0.0013 U	0.00082 U	0.0011 U	0.00089 U	2.9 U	0.02 U	0.001 U	ND
2017_06SIPMP	MW-38	MW-38	6/21/2017	0.18 J																		
2017_06SIPMP	MW-39	MW-39	6/23/2017	7.8																		
2017_06SIPMP	MW-40	MW-40	6/22/2017	280																		
2017_06SIPMP	MW-41	MW-41	6/21/2017	0.25 J																		
2017_06SIPMP	MW-42	MW-42	6/21/2017	0.15 J																		
2017_06SIPMP	MW-43	MW-43	6/21/2017	0.16 J																		
2017_09SIPMP	BXS-1	BXS-1	9/16/2017	32 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.004 J+	0.02 U	0.02 U	0.02 U	0.02 U	0.0028 J+	0.0068 J+
2017_09SIPMP	BXS-1	BXS-5	9/16/2017	11 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	BXS-2	BXS-2	9/16/2017	0.099 Ui	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	BXS-3	BXS-3	9/16/2017	0.071 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	HCMW-7	HCMW-7	9/17/2017	0.8 Ui																		
2017_09SIPMP	MW-15	MW-15	9/16/2017	0.071 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0023 J+	0.0023 J+
2017_09SIPMP	MW-16	MW-16	9/17/2017	0.071 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0021 J+	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0021 J+
2017_09SIPMP	MW-17	MW-17	9/16/2017	0.071 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	MW-18	MW-18	9/16/2017	23	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	MW-2	MW-2	10/10/2017	0.071 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	MW-22	MW-22	9/17/2017	14																		
2017_09SIPMP	MW-23	MW-23	9/16/2017	32																		
2017_09SIPMP	MW-24	MW-24	9/16/2017	0.5 U																		
2017_09SIPMP	MW-25	MW-25	9/16/2017	87																		
2017_09SIPMP	MW-26	MW-26	10/5/2017	0.071 U																		
2017_09SIPMP	MW-27	MW-27	10/5/2017	0.071 U																		
2017_09SIPMP	MW-28	MW-28	9/16/2017	0.5 U																		
2017_09SIPMP	MW-29	MW-29	9/16/2017	0.11 Ui																		
2017_09SIPMP	MW-3	MW-3	9/16/2017	9.2	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	MW-3	MW-44	9/16/2017	9.9																		
2017_09SIPMP	MW-30	MW-30	9/16/2017	0.2 Ui	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0013 J+	0.0013 J+
2017_09SIPMP	MW-31	MW-31	9/16/2017	0.5 U																		
2017_09SIPMP	MW-32	MW-32	9/16/2017	670																		
2017_09SIPMP	MW-33	MW-33	9/16/2017	41																		
2017_09SIPMP	MW-34	MW-34	9/16/2017	0.5 U																		
2017_09SIPMP	MW-35	MW-35	9/16/2017	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0015 J+	0.02 U	0.02 U	0.02 U	0.02 U	0.0023 J+	0.0038 J+
2017_09SIPMP	MW-36	MW-36	9/16/2017	7.4	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	MW-37	MW-37	9/16/2017	32	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	ND
2017_09SIPMP	MW-38	MW-38	9/16/2017	0.071 U																		
2017_09SIPMP	MW-39	MW-39	9/17/2017	2.8																		
2017_09SIPMP	MW-40	MW-40	9/16/2017	1																		
2017_09SIPMP	MW-41	MW-41	9/16/2017	14																		
2017_09SIPMP	MW-42	MW-42	9/16/2017	0.071 U																		
2017_09SIPMP	MW-43	MW-43	9/16/2017	0.5 U																		
2017_12SIPMP	BXS-1	BXS-1	12/13/2017	52	0.022 U	0.022 U	0.022 U	0.00087 U	0.022 U	0.0012 U	0.00088 U	0.00092 U	0.001 U	0.00081 U	0.0014 U	0.00087 U	0.0012 U	0.00095 U	0.022 U	0.022 U	0.0011 U	ND
2017_12SIPMP	BXS-1	BXS-5	12/13/2017	54	0.022 U	0.022 U	0.022 U	0.00091 U	0.022 U	0.0013 U	0.00092 U	0.00095 U	0.0011 U	0.00084 U	0.0015 U	0.00091 U	0.0013 U	0.00098 U	0.022 U	0.022 U	0.0011 U	ND
2017_12SIPMP	BXS-2	BXS-2	12/13/2017	0.071 U	0.022 U	0.022 U	0.022 U	0.00091 U	0.022 U	0.0013 U	0.00092 U	0.00095 U	0.0011 U	0.00084 U	0.0015 U	0.00091 U	0.0013 U	0.00098 U	0.022 U	0.022 U	0.0011 U	ND
2017_12SIPMP	HCMW-7	HCMW-7	12/14/2017	0.42 J																		
2017_12SIPMP	MW-15	MW-15	12/15/2017	0.071 U	0.022 U	0.022 U	0.022 U	0.00089 U	0.022 U	0.0012 U	0.0009 U	0.00094 U	0.0011 U	0.00083 U	0.0015 U	0.00089 U	0.0012 U	0.00097 U	0.022 U	0.022 U	0.0011 U	ND
2017_12SIPMP	MW-16	MW-16	12/14/2017	0.071 U	0.023 U	0.023 U	0.023 U	0.00092 U	0.023 U	0.0013 U	0.00093 U	0.00096 U	0.0011 U	0.00085 U	0.0015 U	0.00092 U	0.0013 U	0.00099 U	0.023 U	0.023 U	0.0012 U	ND
2017_12SIPMP	MW-17	MW-17	12/15/2017	0.071 U	0.024 U	0.024 U	0.024 U	0.00095 U	0.024 U	0.0013 U	0.00096 U	0.001 U	0.0011 U	0.00088 U	0.0015 U	0.00095 U	0.0013 U	0.0011 U	0.024 U	0.024 U	0.0012 U	ND
2017_12SIPMP	MW-18	MW-18	12/14/2017	1.8	0.024 U	0.024 U	0.024 U	0.00098 U	0.024 U	0.0014 U	0.00099 U	0.0011 U	0.0012 U	0.00091 U	0.0016 U	0.00098 U	0.0013 U	0.0011 U	0.024 U	0.024 U	0.0012 U	ND
2017_12SIPMP	MW-2	MW-2	12/14/2017	0.071 U																		
2017_12SIPMP	MW-22	MW-22	12/14/2017	11																		
2017_12SIPMP	MW-23	MW-23	12/13/2017	23																		
2017_12SIPMP	MW-24	MW-24	12/14/2017	0.38 J																		
2017_12SIPMP	MW-25	MW-25	12/13/2017	35																		
2017_12SIPMP	MW-26	MW-26	12/13/2017	0.071 U																		
2017_12SIPMP	MW-27	MW-27	12/13/2017	0.12 J																		
2017_12SIPMP	MW-27	MW-44	12/22/2017	0.071 U																		

Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Table with 22 columns: Event, Well ID, Sample ID, Sample Date, and 18 chemical analytes (Pentachlorophenol, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, Total PAHs (calculated)). Rows contain data for sampling events from 2017 to 2018.

**Table 3A. Summary of Groundwater Sampling Analytical Results: 2008 through Second Quarter 2018**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Event	Well ID	Sample ID	Sample Date	Pentachlorophenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total PAHs (calculated)
				(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
2018_06SIPMP	MW-29	MW-29	6/16/2018	0.071 U																		
2018_06SIPMP	MW-3	MW-3	6/17/2018	16	0.0026 U	0.0024 U	0.0022 U	0.0017 U	0.04 U	0.0022 U	0.0017 U	0.0018 U	0.0019 U	0.0016 U	0.0026 U	0.0017 U	0.0022 U	0.0018 U	0.0028 U	0.0022 U	0.002 U	ND
2018_06SIPMP	MW-30	MW-30	6/16/2018	0.071 U	0.04 U	0.0024 U	0.0022 U	0.0017 U	0.04 U	0.0022 U	0.0017 U	0.0018 U	0.0019 U	0.0016 U	0.0026 U	0.0017 U	0.0022 U	0.0018 U	0.04 U	0.04 U	0.002 U	ND
2018_06SIPMP	MW-31	MW-31	6/16/2018	0.071 U																		
2018_06SIPMP	MW-32	MW-32	6/16/2018	6.5																		
2018_06SIPMP	MW-33	MW-33	6/16/2018	0.12 J																		
2018_06SIPMP	MW-34	MW-34	6/16/2018	0.072 J																		
2018_06SIPMP	MW-35	MW-35	6/16/2018	0.071 U	0.0026 U	0.033 U	0.0032 U	0.0017 U	0.04 U	0.0022 U	0.0017 U	0.0018 U	0.0019 U	0.0016 U	0.0026 U	0.0017 U	0.0022 U	0.0018 U	0.0028 U	0.0022 U	0.002 U	ND
2018_06SIPMP	MW-36	MW-36	6/16/2018	4.3	0.04 U	0.0024 U	0.0022 U	0.0017 U	0.04 U	0.0022 U	0.0017 U	0.0018 U	0.0019 U	0.0016 U	0.0026 U	0.0017 U	0.0022 U	0.0018 U	0.04 U	0.0022 U	0.002 U	ND
2018_06SIPMP	MW-37	MW-37	6/17/2018	0.071 U	0.0033 U	0.003 U	0.0028 U	0.0021 U	0.04 U	0.0028 U	0.0021 U	0.0022 U	0.0024 U	0.0019 U	0.0033 U	0.0021 U	0.0028 U	0.0023 U	0.0035 U	0.0028 U	0.0025 U	ND
2018_06SIPMP	MW-38	MW-38	6/16/2018	0.071 U																		
2018_06SIPMP	MW-39	MW-39	6/17/2018	0.8																		
2018_06SIPMP	MW-40	MW-40	6/17/2018	230																		
2018_06SIPMP	MW-41	MW-41	6/17/2018	0.071 U																		
2018_06SIPMP	MW-42	MW-42	6/16/2018	0.071 U																		
2018_06SIPMP	MW-43	MW-43	6/16/2018	0.071 U																		
2018_06SIPMP	MW-18	MW-44	6/16/2018	0.071 U																		

Notes  
µg/L = micrograms per liter  
i = Method reporting limit/method detection limit is elevated due to a chromatographic interference.  
J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.  
N = Analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.  
NA = Sample bottles arrived at laboratory broken and could not be analyzed.  
ND = Not detected.  
NJ = Analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.  
PAHs = polycyclic aromatic hydrocarbons.  
R = Sample result was rejected because of serious deficiencies in meeting QC criteria.  
U = Analyte was not detected above the reported sample quantification limit.

**Table 3B. Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Analyte <sup>1</sup>	Unit	11/8/2016 <sup>3</sup>	3/8/2017 <sup>3</sup>	6/22/2017 <sup>3</sup>	9/16/2017 <sup>3</sup>	12/14/2017 <sup>3</sup>	3/27/2018 <sup>3</sup>	6/16/2018 <sup>3</sup>
Pentachlorophenol	ug/L	12	410	350	260	500	280	170
2,4,5-Trichlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	ug/L	--	--	--	--	--	--	--
3,4-Dichlorophenol	ug/L	--	--	--	--	--	--	--
3,5-Dichlorophenol	ug/L	--	--	--	--	--	--	--
Total Tetrachlorophenols <sup>4</sup>	ug/L	0.51J	21	17	11	15	13	5.6

**Notes:**

-- = not analyzed.

ug/L = micrograms per liter.

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

ND = not detected.

<sup>1</sup> Analysis by EPA method 8151M.

<sup>2</sup> Sample composite from EW-2 and EW-4.

<sup>3</sup> Sample composite from EW-1, EW-2, and EW-4.

<sup>4</sup> Total tetrachlorophenols comprises multiple tetrachlorophenol isomers, including 2,3,4,6-tetrachlorophenol and 2,3,5,6-tetrachlorophenol.

**Table 3C. Historical Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	Total Tetrachlorophenols <sup>1</sup>	3,4-Dichlorophenol	3,5-Dichlorophenol	Pentachlorophenol	Comments <sup>2</sup>
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
EWCOMP030509	3/5/2009	1.0 U	1.0 U	15.0	2.0				430	
EWCOMP040209	4/2/2009	1.0 U	1.0 U	15.0	2.5				180	
EWCOMP052609	5/26/2009	1.1 U	1.1 U	12.0	2.0				240	
EWCOMP070709	7/7/2009	1.0 U	1.0 U	9.1	1.2				190	
EW-1-EW-7	8/5/2009	0.98 U	0.98 U	8.9	1.3				240	PCP from Method 8270D
EWCOMP082709	8/27/2009	1.0 U	1.0 U	7.1	1.0				180	
EWCOMP093009	9/30/2009	1.0 U	1.0 U	9.4	1.4				230	EW 1- EW 6 only
EW-1-EW-6	11/19/2009	0.96 U	0.96 U	10.0	1.9				450	EW 1- EW 6 only; analysis by 8270D SIM
EWCOMP122809	12/28/2009	1.0 U	1.0 U	15.0	1.8				490	EW 1- EW 6 only; analysis by 8270D SIM
EWCOMP12610	1/26/2010	0.99 U	0.99 U	16.0	1.8				470	EW 1- EW 6 only; analysis by 8270D SIM
EW1-7	2/11/2010	1.1 U	1.1 U	8.9	1.2				270	Analysis by 8270D SIM
EWCOMP32410	3/24/2010	1.0 U	1.0 U	13.0	1.6				340	Analysis by 8270D SIM
EWCOMP42910	4/30/2010	1.1 U	1.1 U	11.0	1.4				320	Analysis by 8270D
EW1-7	5/27/2010	0.96 U	0.96 U	5.2	1.0				110	Analysis by 8270D
EWCOMP63010	6/30/2010	1.1 U	1.1 U	11.0	1.8				320	EW1-EW3 & EW5-EW7, Analysis by 8270D SIM
EW1-7	8/19/2010	0.95 U	0.95 U	13.0	2.0				300	Analysis by 8270D
EW1-6	12/7/2010	0.97 U	0.97 U	9.5	1.5				540	Analysis by 8270D
Extraction Well Composite	2/12/2011	0.96 U	0.96 U	32.0	10.0				560	EW 1- EW 6 only; Analysis by 8270D
EW1-4 Composite	5/18/2011	0.099 U	0.06 J			12 U	0.5 U	0.74 U	320	EW 1- EW 4 only; Analysis by 8151M
EW1-4	8/25/2011	0.099 U	0.13 J			28			710	EW 1- EW 4 only; Analysis by 8151M
EW1-4	11/3/2011	0.099 U	0.11 J			33 U			710	EW 1- EW 4 only; Analysis by 8151M
EW1-4	2/14/2012	0.099 U	0.11 J			19 Ui			650	EW 1- EW 4 only; Analysis by 8151M
EW1-4	5/3/2012	1.0 U	0.16 NJ			39 J			770	EW 1- EW 4 only; Analysis by 8151M

**Table 3C. Historical Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples**

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	Total Tetrachlorophenols <sup>1</sup>	3,4-Dichlorophenol	3,5-Dichlorophenol	Pentachlorophenol	Comments <sup>2</sup>
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
EW2-4 COMP	8/20/2012	1.0 U	0.5 U			26 U			550	EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	11/12/2012	1.0 U	0.50 U			27 U			690	EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	2/11/2013	1.0 U	0.50 U			39 U			820 J	EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	6/4/2013	1.0 U	0.50 U			2.4 U			590	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	8/26/2013	0.19 U	0.14 U			18 J			530	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	12/2/2013	1.0 U	0.50 U			21			630	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	3/17/2014	1.0 U	0.50 U			15			340	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	6/2/2014	1.0 U	0.20 J			29			51	EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/29/2014	0.24 J	0.50 U			31			790	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	11/17/2014	1.0 U	0.50 U			27			590	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	2/23/2015	1.0 UJ	0.50 U			23			590	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/15/2015	1.0 UJ	0.50 U			17			380	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	12/7/2015	1.0 UJ	0.50 UJ			19			430	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	2/29/2016	1.0 UJ	0.50 U			34			620	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	6/5/2016	1.0 U	0.50 U			30			550	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/25/2016	1.0 U	0.18 J			16			410	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	11/8/2016	1.0 U	0.54 J			1 U			12	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	3/8/2017	1.0 U	0.14 U			21			410	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	6/22/2017	1.0 U	0.14 U			17			350	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/29/2017	0.2 U	0.14 U			11			260	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	12/13/2017	1.0 U	0.50 U			15			500	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	3/27/2018	1.0 U	0.50 U			13			280	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	6/16/2018	1 U	0.50 U			5.6			170	EW-1, EW-2 & EW-4 only; Analysis by 8151M

**Table 3C. Historical Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	Total Tetrachlorophenols <sup>1</sup>	3,4-Dichlorophenol	3,5-Dichlorophenol	Pentachlorophenol	Comments <sup>2</sup>
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	

**Notes:**

ug/L = micrograms per liter.

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

NJ = Analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

U = Analyte was not detected above the reported sample quantification limit.

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may be inaccurate or imprecise.

<sup>1</sup> Total tetrachlorophenols comprise of multiple tetrachlorophenol isomers, including 2,3,4,6-tetrachlorophenol and 2,3,5,6-tetrachlorophenol.

<sup>2</sup> EW-1, EW-5, and EW-6 were shut down because of a recurring high water level condition in the infiltration trench. EW-7 was discontinued with approval from the EPA in 2010.

EW-3 was shut down during the second quarter of 2013 and was off during sample collection.

**Table 3D. Analytical Results of Pentachlorophenol and Breakdown Products in Individual Extraction Wells**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol <sup>1</sup>	2,4,6-Trichlorophenol <sup>1</sup>	2,3,4,6-Tetrachlorophenol <sup>1</sup>	2,3,5,6-Tetrachlorophenol <sup>1</sup>	Pentachlorophenol <sup>1</sup>
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
EW-1	2/11/2010	1.0 U	1.0 U	7.5	2.4	200
EW-2	2/11/2010	1.0 U	1.0 U	30	4.6	640
EW-3	2/11/2010	1.0 U	1.0 U	40	4.2	1,400
EW-4	2/11/2010	1.0 U	1.0 U	5.7	1.0 U	450
EW-5	2/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
EW-6	2/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
EW-7	2/11/2010	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U

**Notes:**

ug/L = micrograms per liter.

U =Analyte was not detected above the reported sample quantification limit.

<sup>1</sup> Analysis by EPA method 8270D SIM.

**Table 4. Bacteriological Analysis Results for Heterotrophic Plate Count**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Sample ID	Sample Date	Heterotrophic Plate Count <sup>1</sup> (CFU/mL)	Comments
EW 1-7	5/25/2010	1 U	Analyzed by Spectra Laboratories, Tacoma, WA
MW-3	5/25/2010	ND	Analyzed by Spectra Laboratories, Tacoma, WA
MW-3	11/16/2010	1 U	Analyzed by Edge Analytical Laboratories, Burlington, WA
EW 1-6	12/7/2010	95	Analyzed by Edge Analytical Laboratories, Burlington, WA

**Notes:**

CFU/mL = colony forming units per milliliter.

ND = not detected.

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

U = Analyte was not detected above the reported sample quantification limit.

<sup>1</sup> Analysis by SM 9215B.

**Table 5. Light Nonaqueous-Phase Liquid (LNAPL) Recovery**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Date	Well ID	Weight (pounds)			Volume (gallons)
		Total	Material	LNAPL	
4/7/2008	MW-12	2.24	0.53	1.71	0.20
6/2/2008	MW-12	2.34	0.53	1.81	0.22
7/28/2008	MW-12	2.14	0.54	1.60	0.19
9/26/2008	MW-12	1.9	0.46	1.44	0.17
11/24/2008	MW-12	2.22	0.54	1.68	0.20
1/7/2009	MW-13	2.12	0.56	1.56	0.19
3/5/2009	MW-12	2.35	0.64	1.71	0.20
4/1/2009	MW-12	2.58	0.64	1.94	0.23
5/27/2009	MW-12	2.76	0.68	2.08	0.25
11/19/2009	MW-12	NA	NA	1.82	NA
12/28/2009	MW-12	2.64	0.66	1.98	0.24
1/25/2010	MW-12	2.48	0.64	1.84	0.22
3/23/2010	MW-12	2.6	0.66	1.94	0.23
4/28/2010	MW-12	2.68	0.64	2.04	0.24
6/29/2010	MW-12	2.52	0.64	1.88	0.22
10/19/2010	MW-13	1.49	0.64	0.85	0.10
10/19/2010	MW-12	1.8	0.64	1.16	0.14
2/10/2011	MW-12	2.19	0.56	1.63	0.19
5/18/2011	MW-12	2.56	0.64	1.92	0.23
5/18/2011	MW-13	1.9	0.45	1.45	0.17
5/18/2011	MW-19	1.8	0.63	1.17	0.14
5/18/2011	MW-21	1.59	0.58	1.01	0.12
8/24/2011	MW-12	2.07	0.63	1.44	0.17
11/3/2011	MW-12	2.27	0.61	1.66	0.20
2/15/2012	MW-12	1.89	0.64	1.25	0.15
5/2/2012	MW-12	2.45	0.64	1.81	0.22
8/20/2012	MW-12	1.08	0.47	0.61	0.07
11/13/2012	MW-12	NC	NC	0	0.00
2/12/2013	MW-12	2.38	0.41	1.97	0.23
6/3/2013	MW-12	1.91	0.58	1.33	0.16
8/26/2013	MW-12	0.93	0.2	0.73	0.09
12/3/2013	MW-12	0.98	0.33	0.65	0.08
3/17/2014	MW-12	2.14	0.32	1.8	0.21
6/2/2014	MW-12	2.13	0.3	1.83	0.22
9/29/2014	MW-12	1.16	0.32	0.84	0.10
11/17/2014	MW-12	1.71	0.31	1.41	0.17
2/23/2015	MW-12	2.1	0.31	1.79	0.21
9/15/2015	MW-12	2.15	0.33	1.82	0.22
12/7/2015	MW-12	2.14	0.31	1.83	0.22
2/29/2016	MW-12	2.58	0.3	2.28	0.27

**Table 5. Light Nonaqueous-Phase Liquid (LNAPL) Recovery**

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Date	Well ID	Weight (pounds)			Volume (gallons)
		Total	Material	LNAPL	
6/5/2016	MW-12	3.06	0.44	2.62	0.31
9/25/2016	MW-12	2.61	0.26	2.35	0.28
11/8/2016	MW-12	2.44	0.31	2.13	0.25
3/8/2017	MW-12	1.39	0.31	1.08	0.13
6/10/2017	MW-13	1.42	0.31	1.11	0.13
6/10/2017	MW-12	2.41	0.31	2.10	0.25
9/16/2017	MW-12	0.99	0.31	0.68	0.08
12/13/2017	MW-12	0.91	0.33	0.58	0.07
12/13/2017	MW-13	0.86	0.29	0.58	0.07
3/16/2018	MW-12	2.05	0.25	1.79	0.21
3/16/2018	MW-13	1.01	0.31	0.70	0.08
6/16/2018	MW-12	0.47	0.25	0.22	0.03
6/16/2018	MW-13	0.26	0.26	0.00	0.00
<b>Total</b>				77.2	8.97

**Notes:**

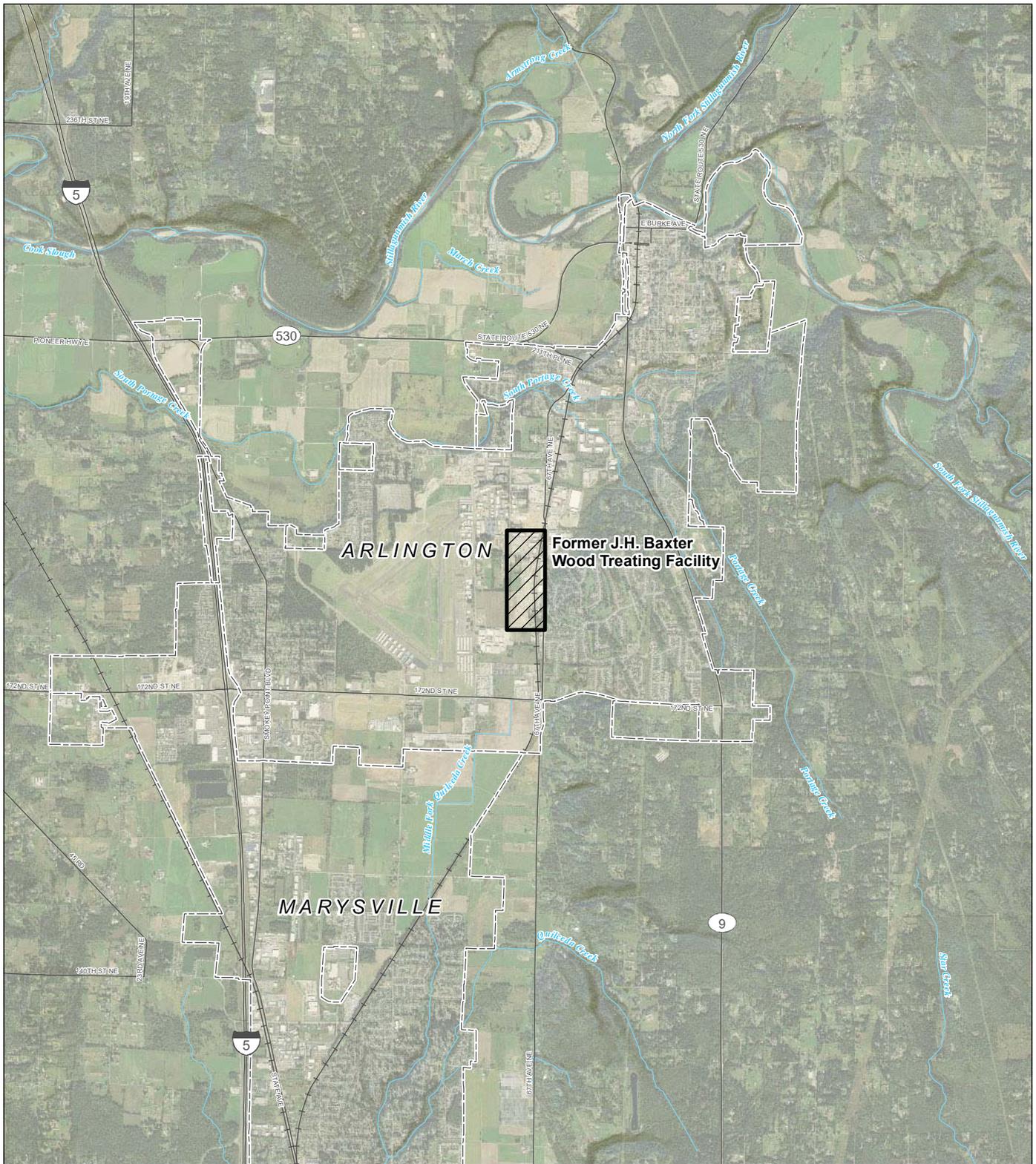
LNAPL = light non-aqueous phase liquid

NA = not analyzed.

NC = no change, water level low.

**Figures**

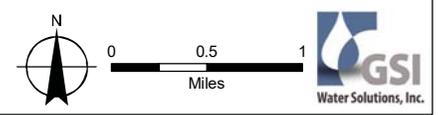
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- LEGEND**
- Cities
  - Railroads
  - Major Roads
  - Watercourses

**MAP NOTES:**  
 Date: July 25, 2016  
 Data Sources: Air photo taken on September 28, 2015 by the USDA

**FIGURE 1**  
 Site Vicinity Map  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

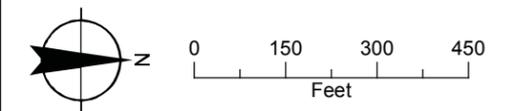


**FIGURE 2**

**Groundwater Monitoring Network**  
Former J.H. Baxter  
Wood Treating Facility  
Arlington, Washington

**LEGEND**

-  Monitoring Well
-  Recovery Well
-  Extraction Well
-  Infiltration Trench
-  Property Boundary



Date: March 28, 2018  
Data Sources: AMEC, ESRI, Air photo taken  
2015 by NAIP

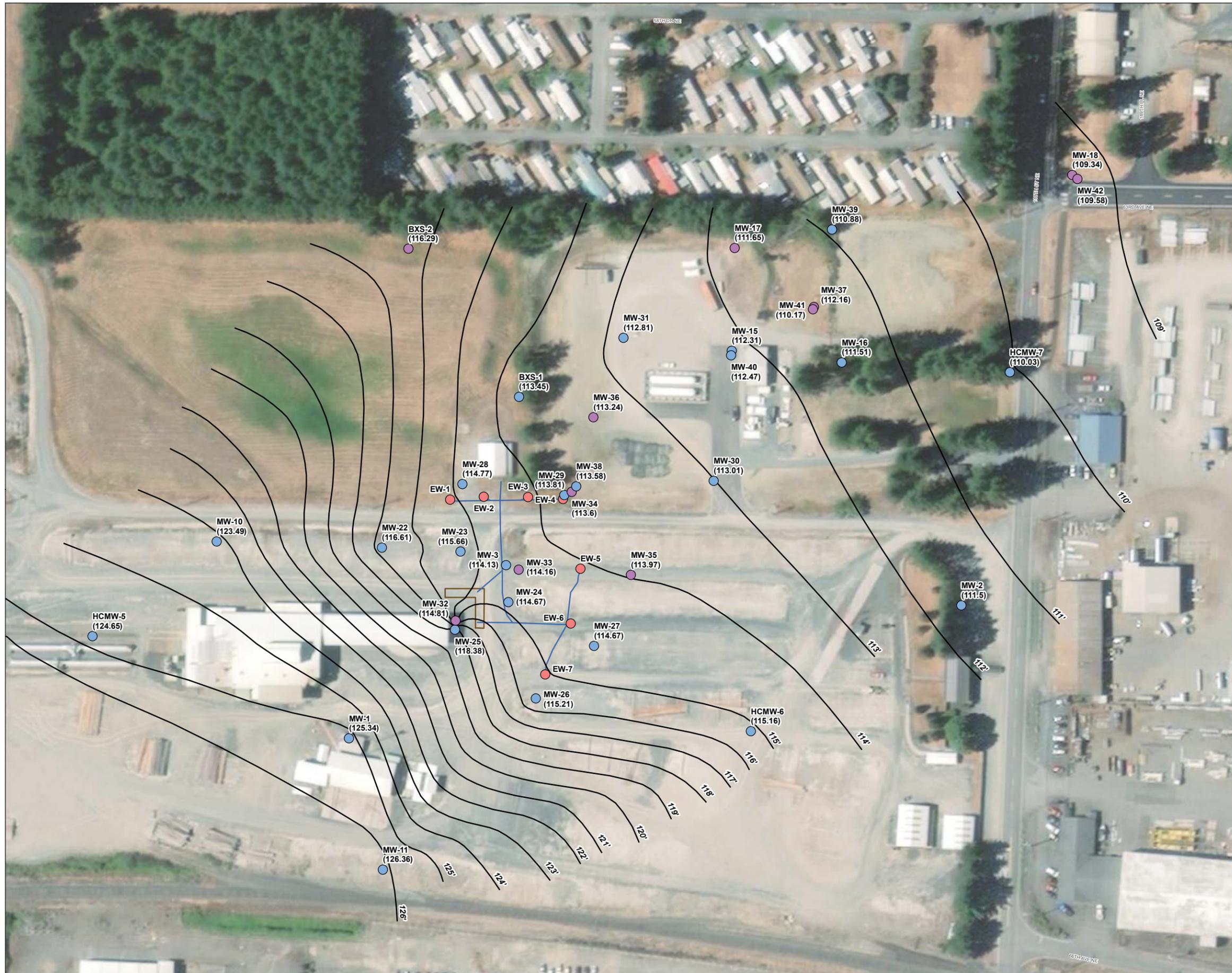


**FIGURE 3**

**Groundwater Elevation Contour Map:**

**First Quarter 2018**

Former J.H. Baxter  
Wood Treating Facility  
Arlington, Washington

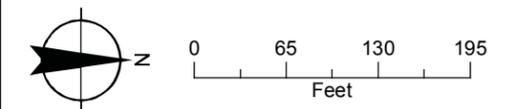


**LEGEND**

- Groundwater Elevation Contours (dashed where inferred)
- Shallow Monitoring Well (March 2018 Groundwater Elevation)
- Intermediate Monitoring Well (March 2018 Groundwater Elevation)
- Extraction Well
- Infiltration Trench
- Infiltration Gallery Piping

**NOTES:**

1. All elevations exist in NAVD88.
2. Extraction wells are pumping while water level measurements are collected.
3. Intermediate wells not used for contouring.



Date: September 19, 2018  
Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP



**FIGURE 4**

**Groundwater Elevation Contour Map:  
Second Quarter 2018**

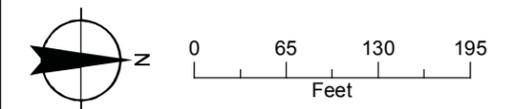
Former J.H. Baxter  
Wood Treating Facility  
Arlington, Washington

**LEGEND**

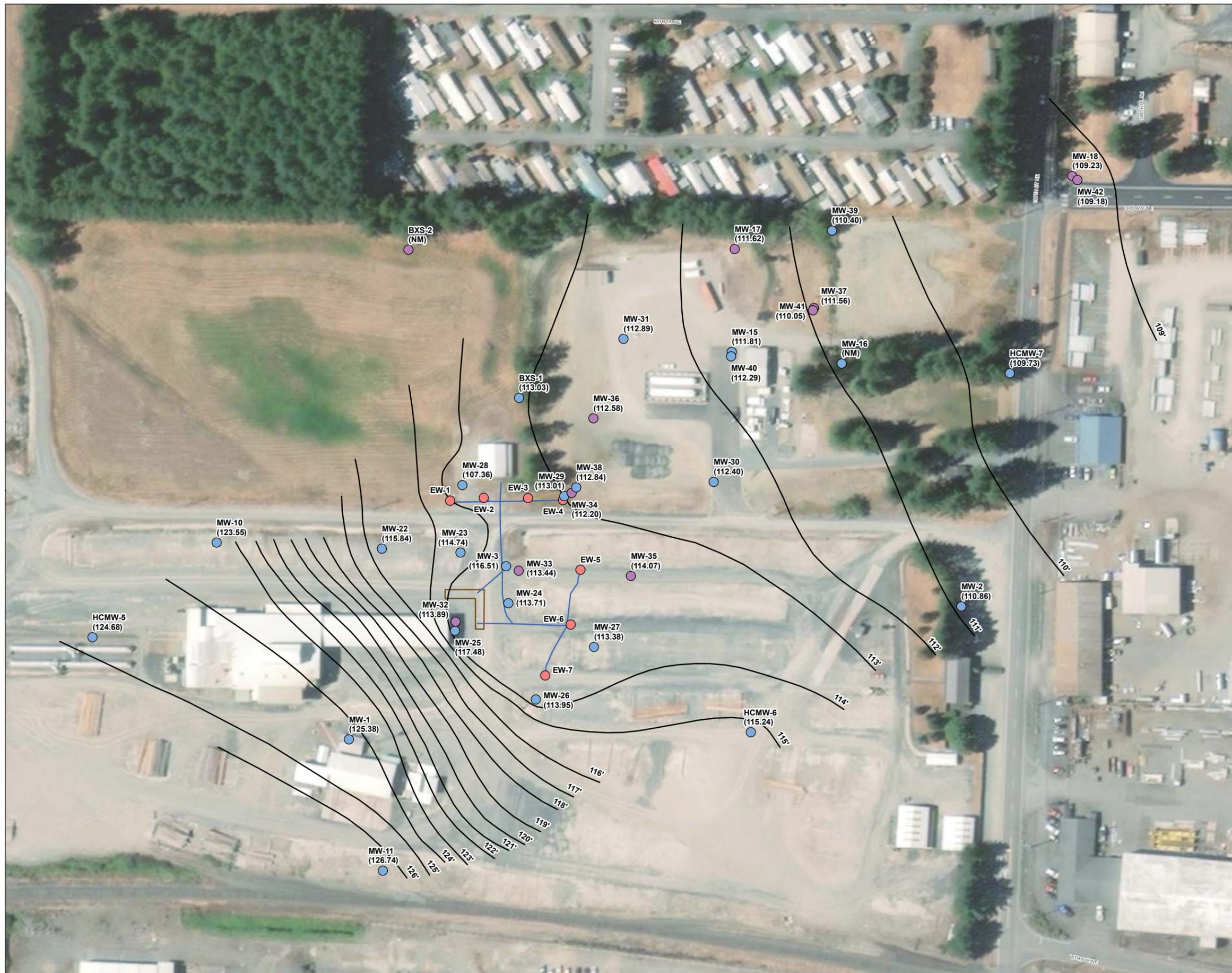
-  Groundwater Elevation Contours (dashed where inferred)
-  Shallow Monitoring Well (June 2018 Groundwater Elevation)
-  Intermediate Monitoring Well (June 2018 Groundwater Elevation)
-  Extraction Well
-  Infiltration Trench
-  Infiltration Gallery Piping

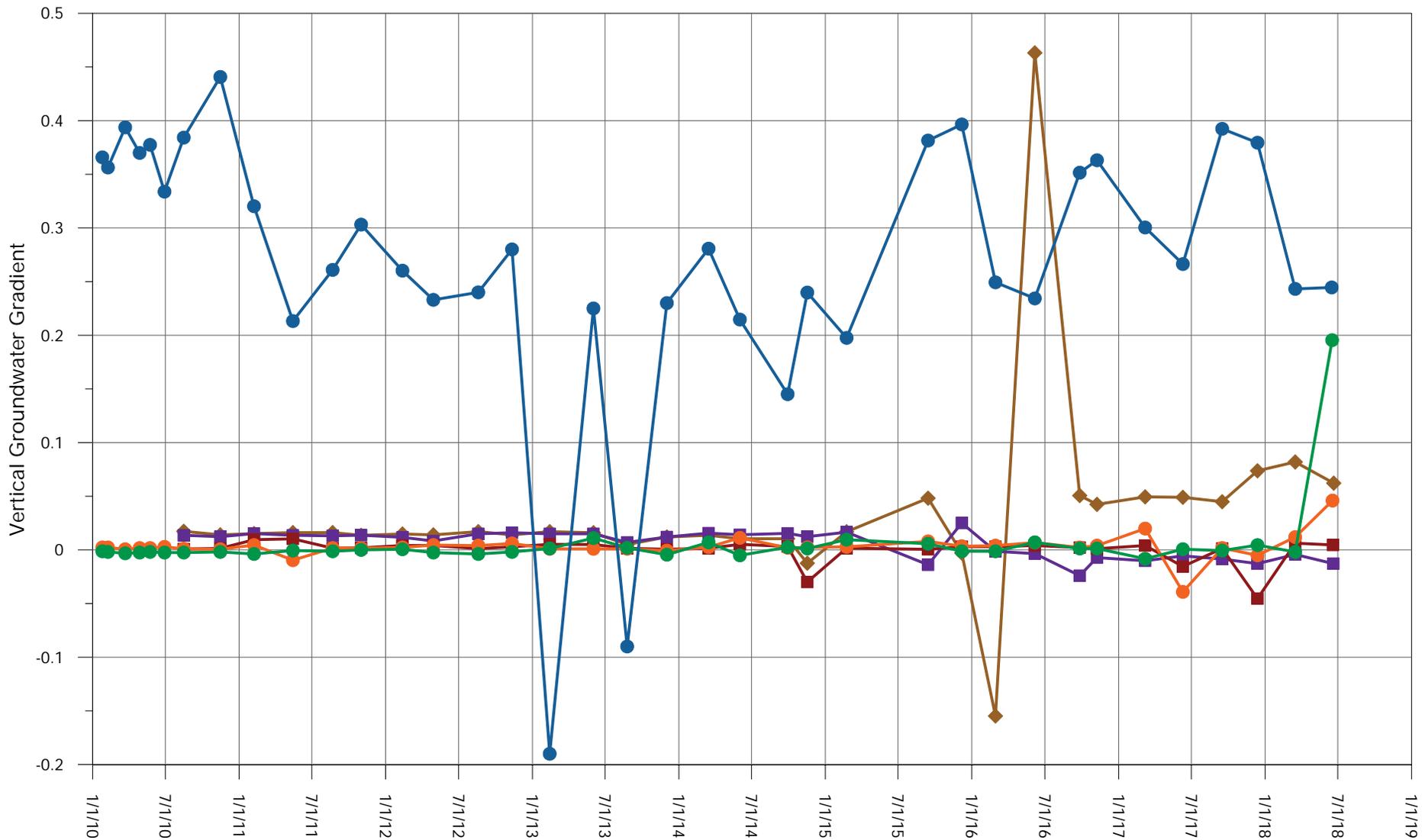
**NOTES:**

1. All elevations exist in NAVD88.
2. Extraction wells are pumping while water level measurements are collected.
3. Intermediate wells not used for contouring.



Date: September 19, 2018  
Data Sources: AMEC, ESRI, Air photo taken  
2015 by NAIP





**Legend:**

- MW-25/MW-32, Shallow to Intermediate Zone
- MW-3/MW-33, Shallow to Intermediate Zone
- MW-29/MW-34, Shallow to Intermediate Zone
- MW-29/MW-38, Shallow to Deep Zone
- MW-15/MW-40, Shallow to Deep Zone
- ◆ MW-37/MW-41, Intermediate to Deep Zone

**Notes:**

Vertical groundwater gradients are dimensionless. Positive values indicate a downward flow direction, while negative values indicate an upward flow direction. In the vicinity of MW-25 and MW-32, a silt layer is approximately 20' below ground surface, and could account for larger vertical gradient. 1Q 2013 and 3Q 2013, the MW-25/MW-32 vertical gradient shifted from a downward gradient to upward gradient. The associated O&M reports cited numerous high level alarm errors during the 1Q 2013 period that shut the extraction system down, and possible human error as reasons for the change. Suspect measurement at MW-37 in 2Q 2016.

**FIGURE 5**  
**Vertical Groundwater Gradient Trends**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



**FIGURE 6**  
**Pentachlorophenol in**  
**Groundwater: Second Quarter**  
**2017 – Second Quarter 2018**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

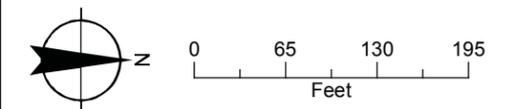


**LEGEND**

- Shallow Well
- Intermediate Well
- Deep Well
- Extraction Well

**NOTES:**

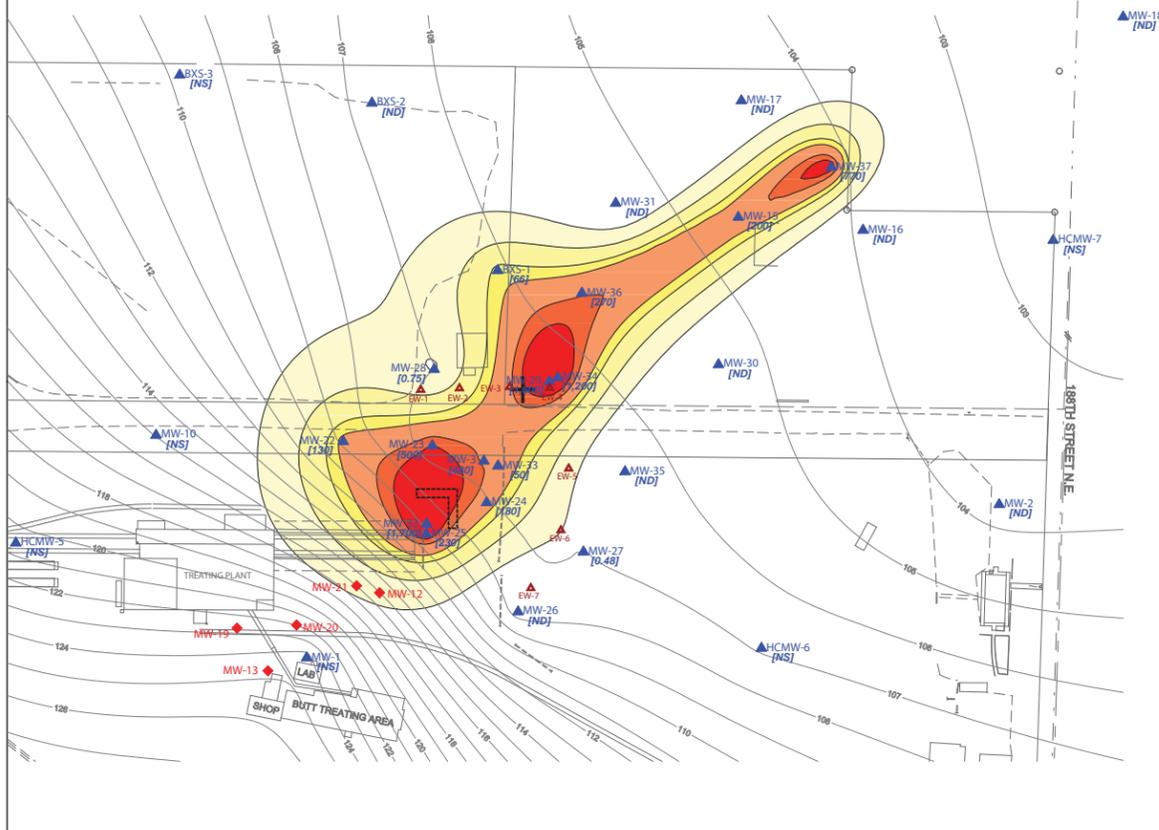
1. Results in µg/L (microgram per liter)
2. Abbreviations:  
 J Estimated Value  
 NA Not Analyzed  
 U Not Detected Above Reporting Limit



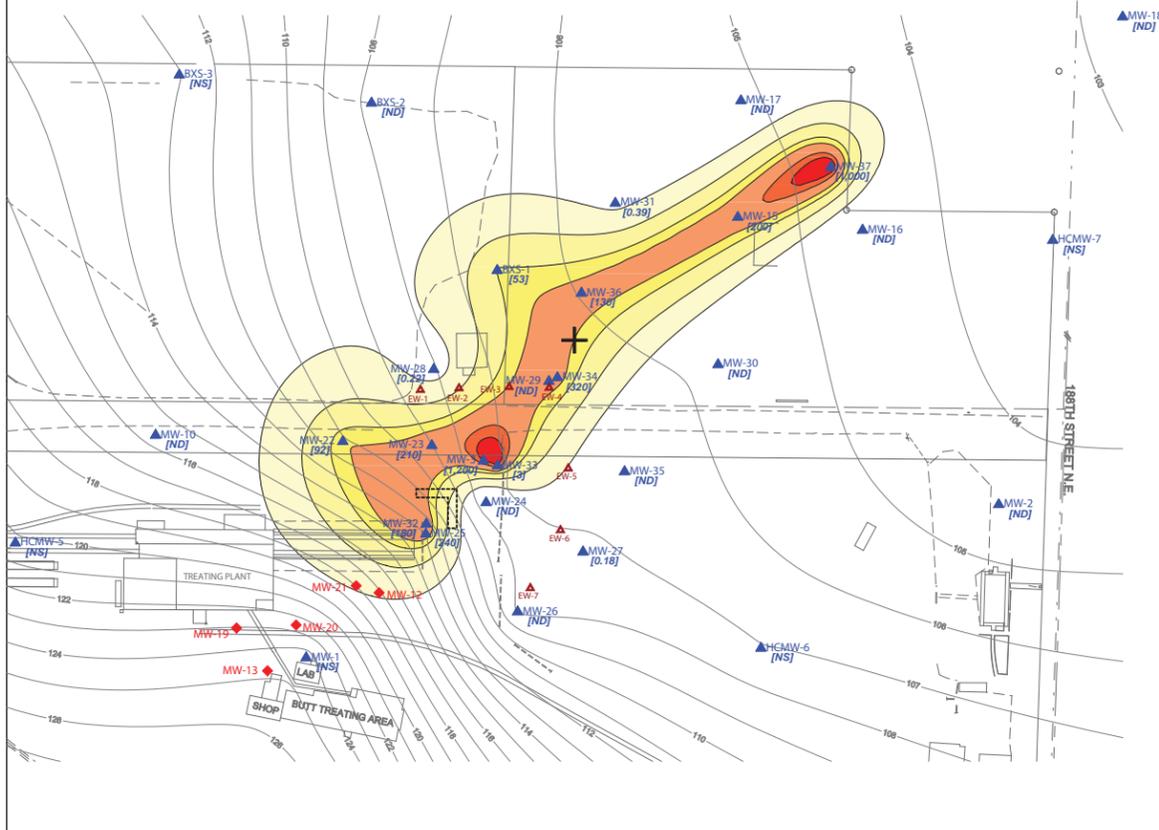
Date: September 21, 2018  
 Data Sources: AMEC, ESRI, Air photo taken on  
 May 2, 2015 by Google Earth



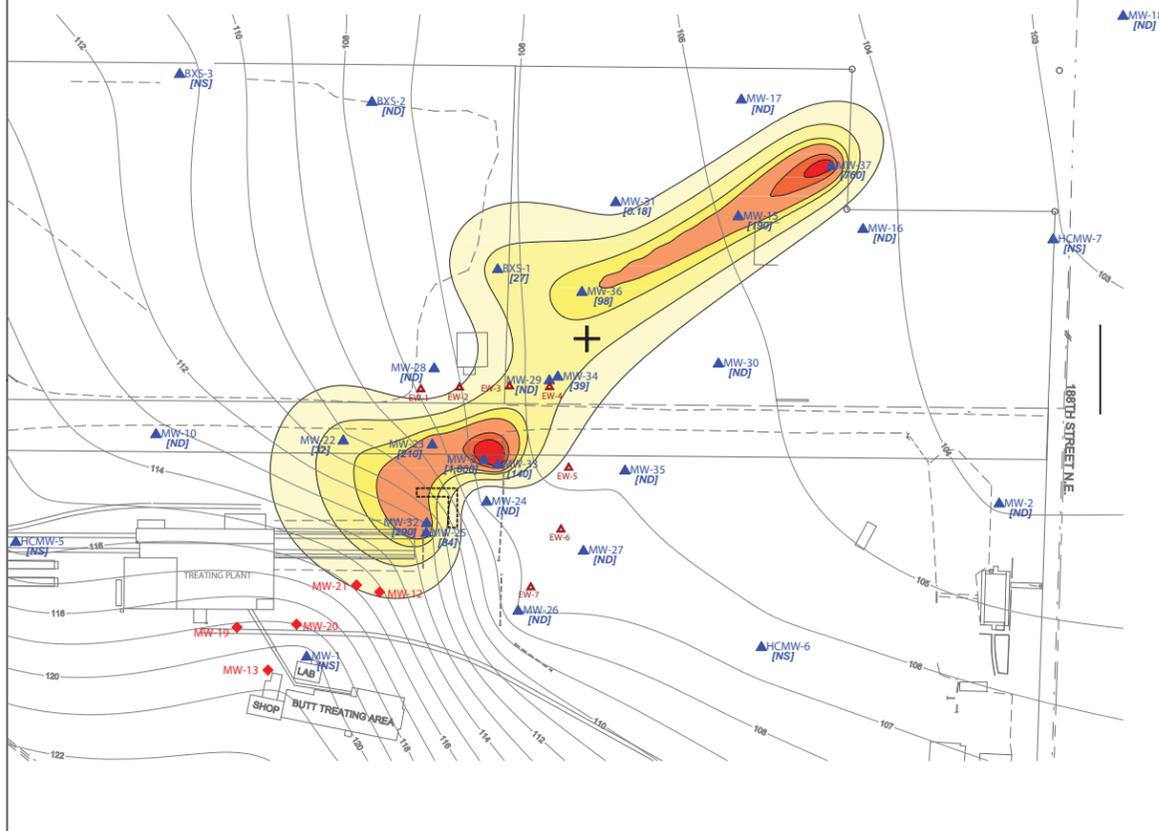
**JANUARY 2008**



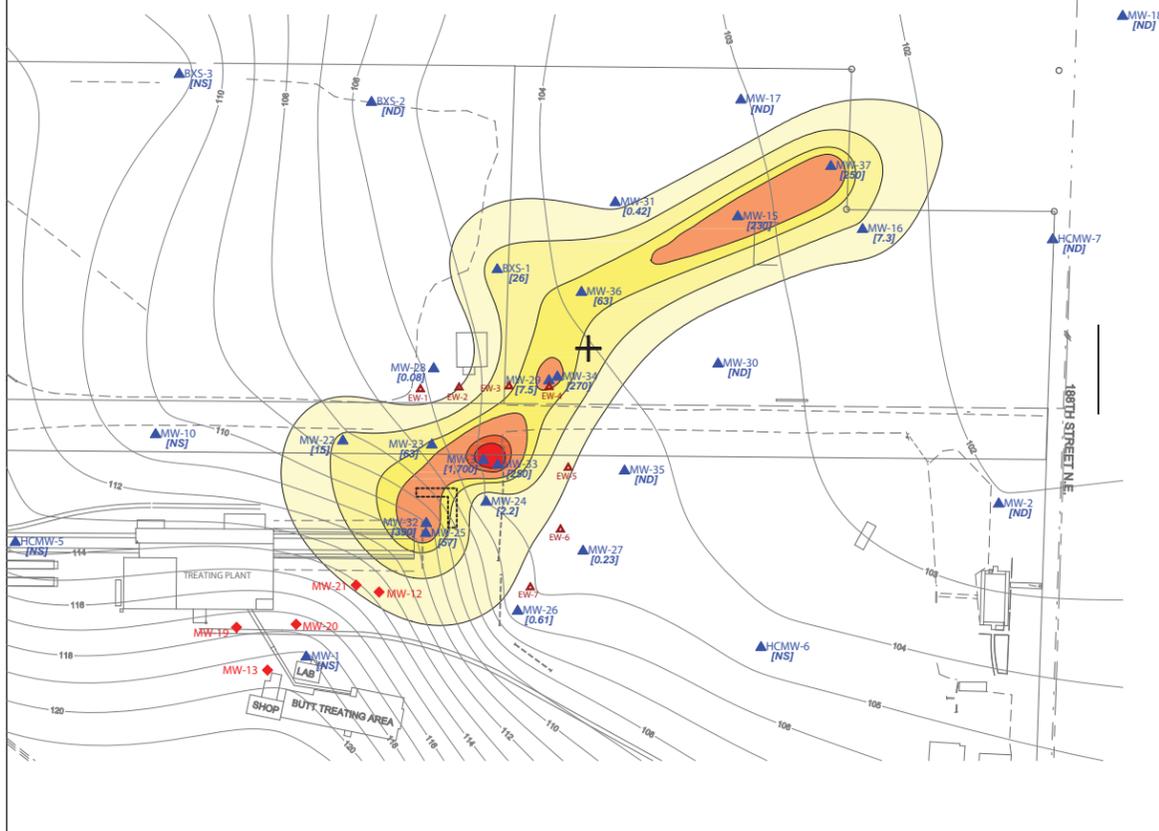
**APRIL 2008**



**JULY 2008**



**OCTOBER 2008**

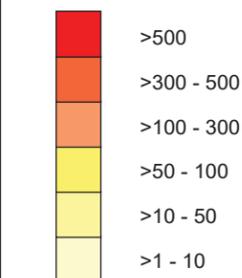


**FIGURE 7**  
 Pentachlorophenol Isopleth Map: 2008  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**LEGEND**

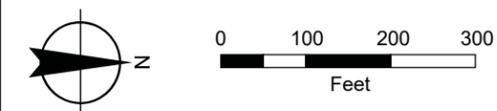
- ▲ Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- ◆ LNAPL Recovery Well
- ▲ Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NS Not Sampled
- ⊕ PCP Plume Center of Mass
- 107 - Groundwater Elevation Isopleth

**Pentachlorophenol Concentration (ug/L)**



**PCP Plume Stability Data Summary**

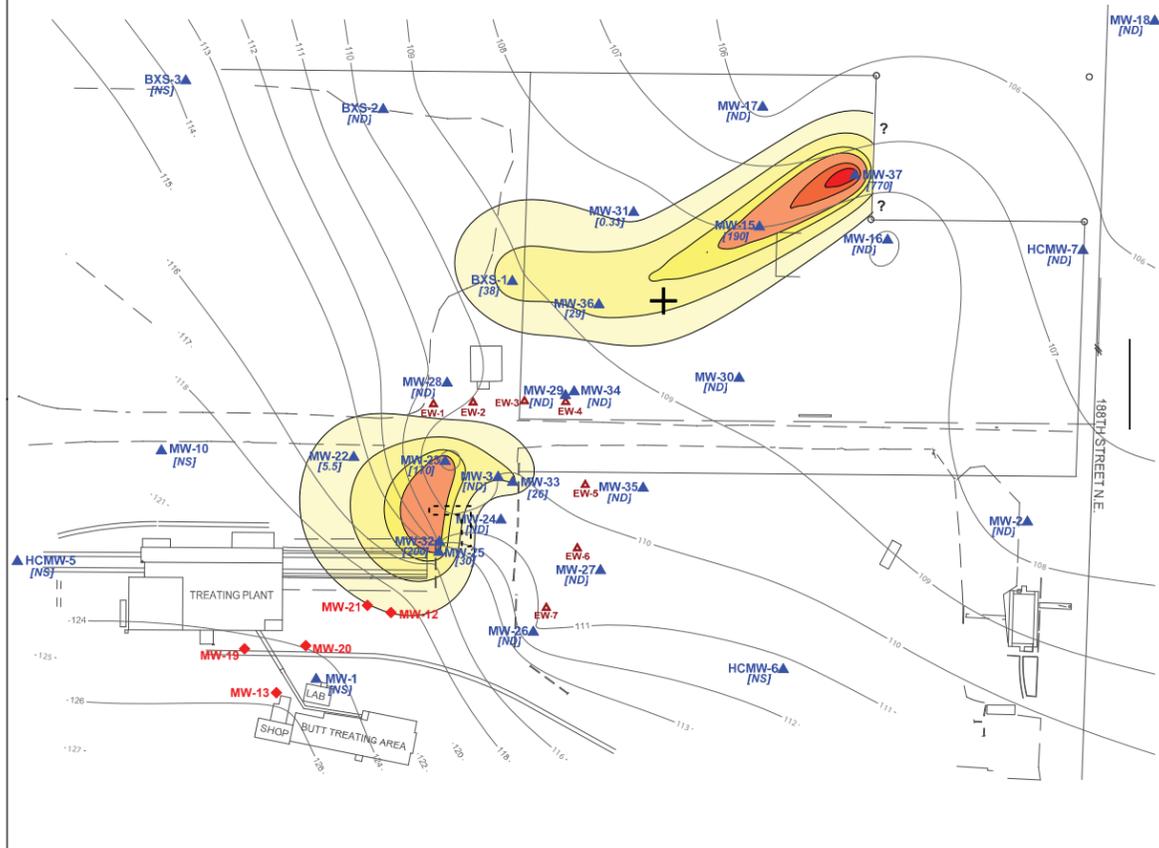
Month	Plume Area:	Plume Avg. Concentration:	Plume Mass:
<b>January 2008</b>	4.4 Acres	116 ug/L	12.4 Pounds
<b>April 2008</b>	3.9 Acres	59.7 ug/L	5.7 Pounds
<b>July 2008</b>	3.4 Acres	49.2 ug/L	4.1 Pounds
<b>October 2008</b>	4.2 Acres	40.7 ug/L	4.1 Pounds



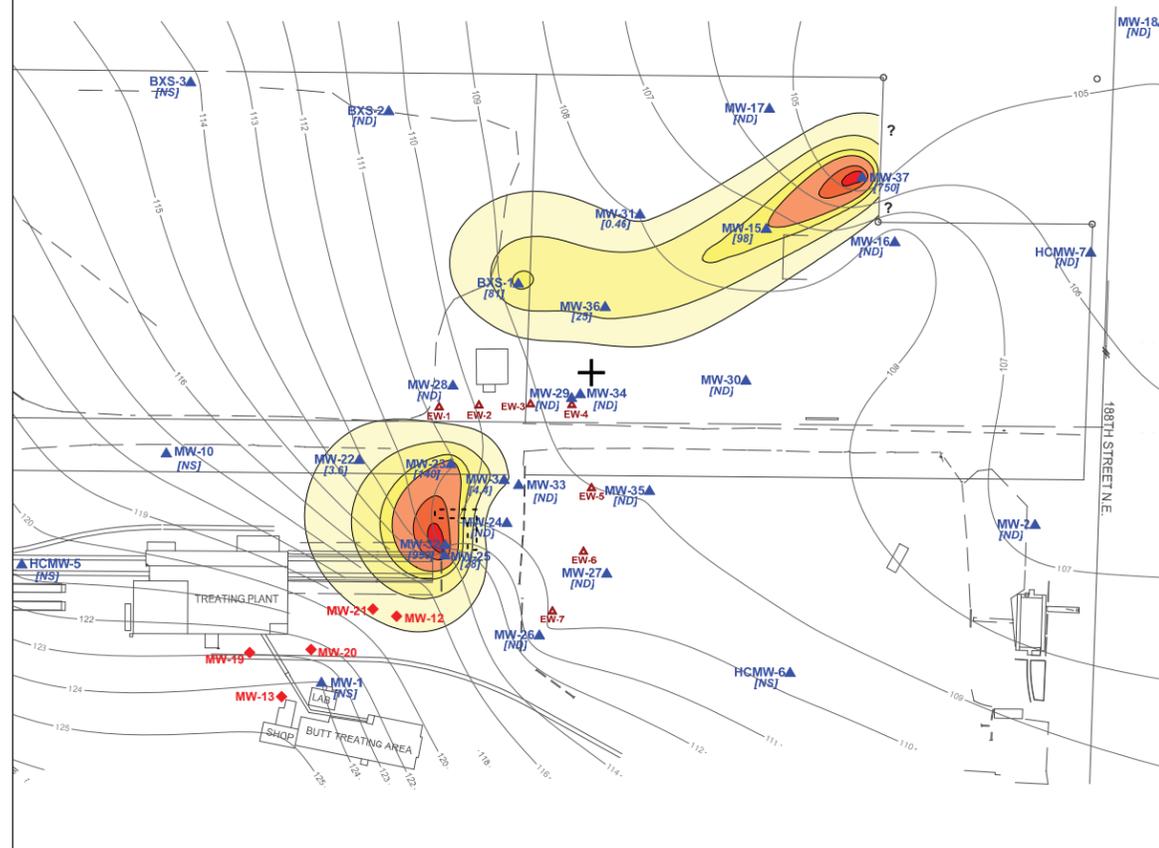
**MAP NOTES:**  
 Date: July 27, 2016  
 Data Sources: Premier Environmental Services, Inc., Figures 8-11, 03/13/14



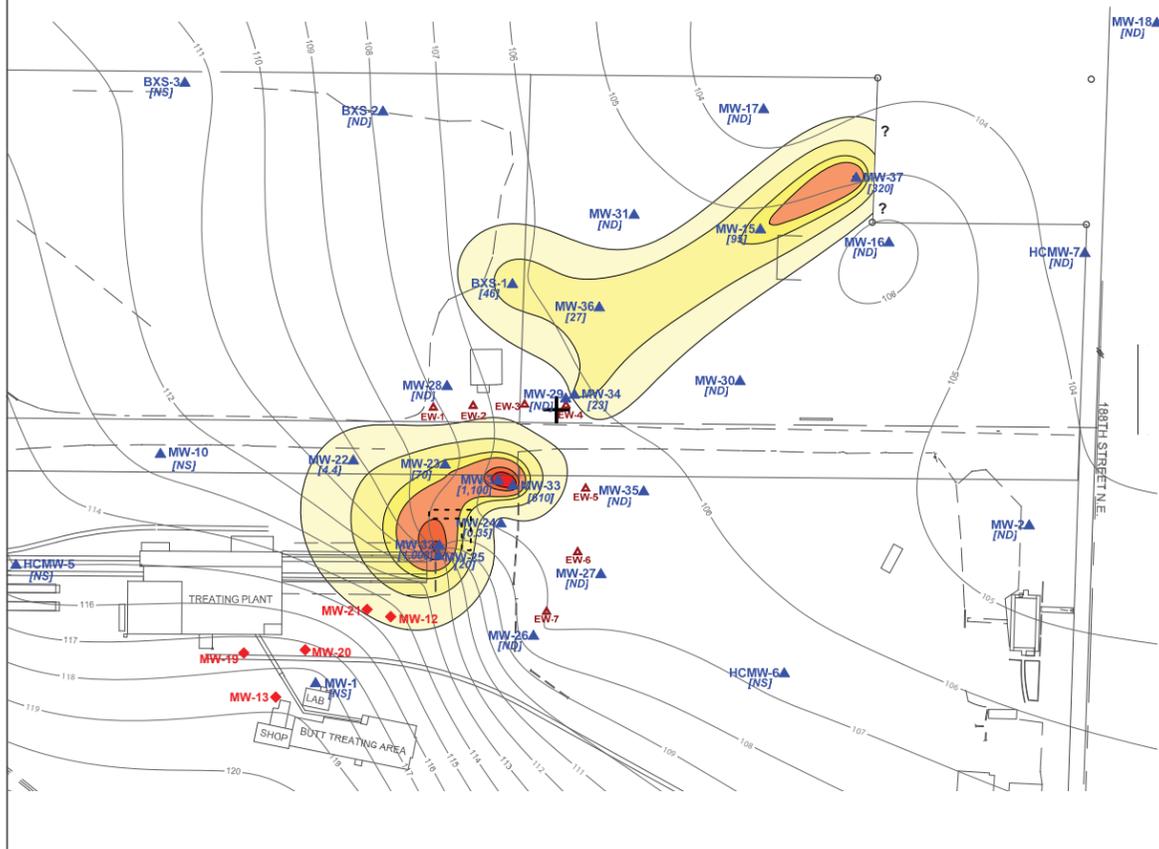
FEBRUARY 2009



MAY 2009



AUGUST 2009



NOVEMBER 2009

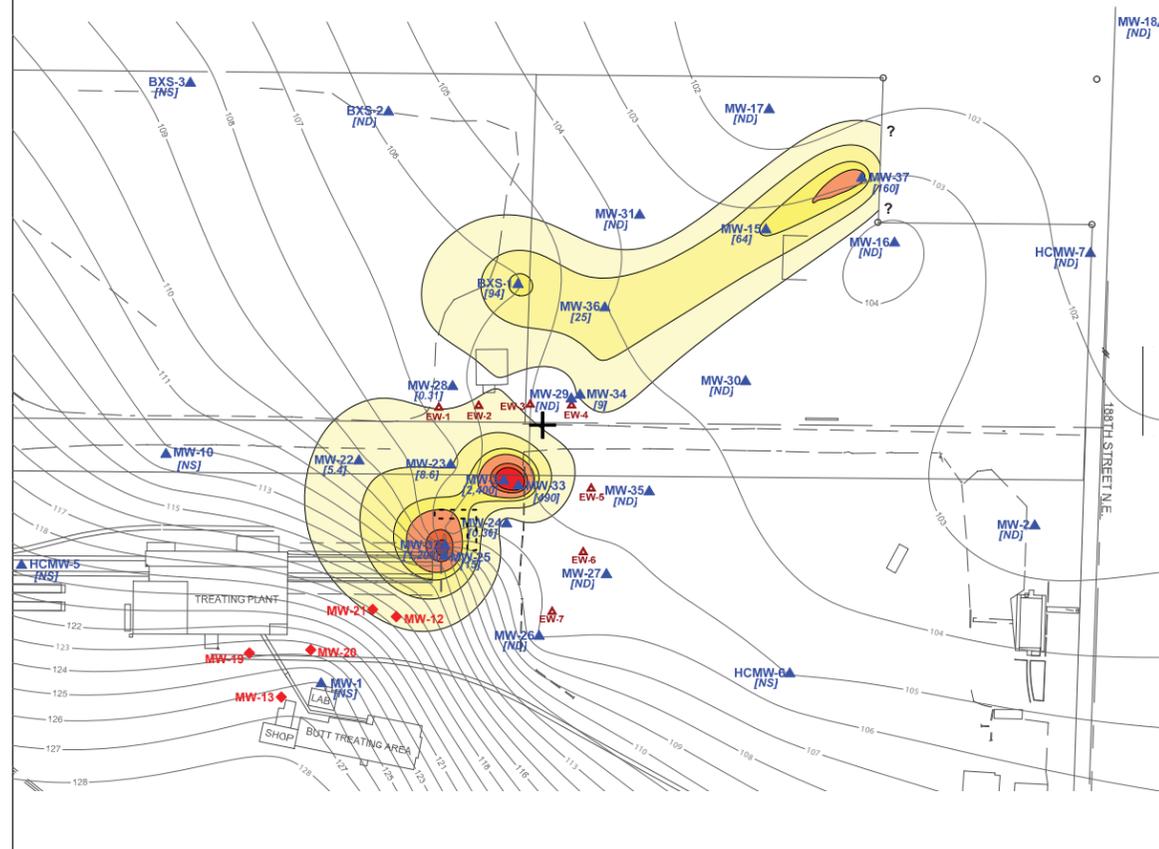


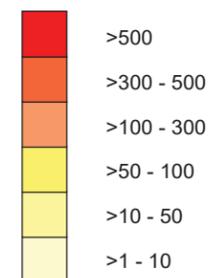
FIGURE 8

Pentachlorophenol Isopleth Map: 2009  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

**LEGEND**

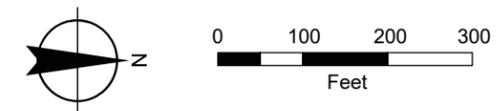
- ▲ Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- ◆ LNAPL Recovery Well
- ▲ Groundwater Extraction Well
- - - Infiltration Gallery
- ND Not-Detected
- NS Not Sampled
- ⊕ PCP Plume Center of Mass
- 107 - Groundwater Elevation Isopleth

**Pentachlorophenol Concentration (ug/L)**



**PCP Plume Stability Data Summary**

Month	Plume Area:	Plume Avg. Concentration:	Plume Mass:
<b>February 2009</b>	2.7 Acres	36.3 ug/L	2.4 Pounds
<b>May 2009</b>	2.7 Acres	41.9 ug/L	2.7 Pounds
<b>August 2009</b>	2.8 Acres	35.8 ug/L	2.4 Pounds
<b>November 2009</b>	3.1 Acres	28.3 ug/L	2.2 Pounds

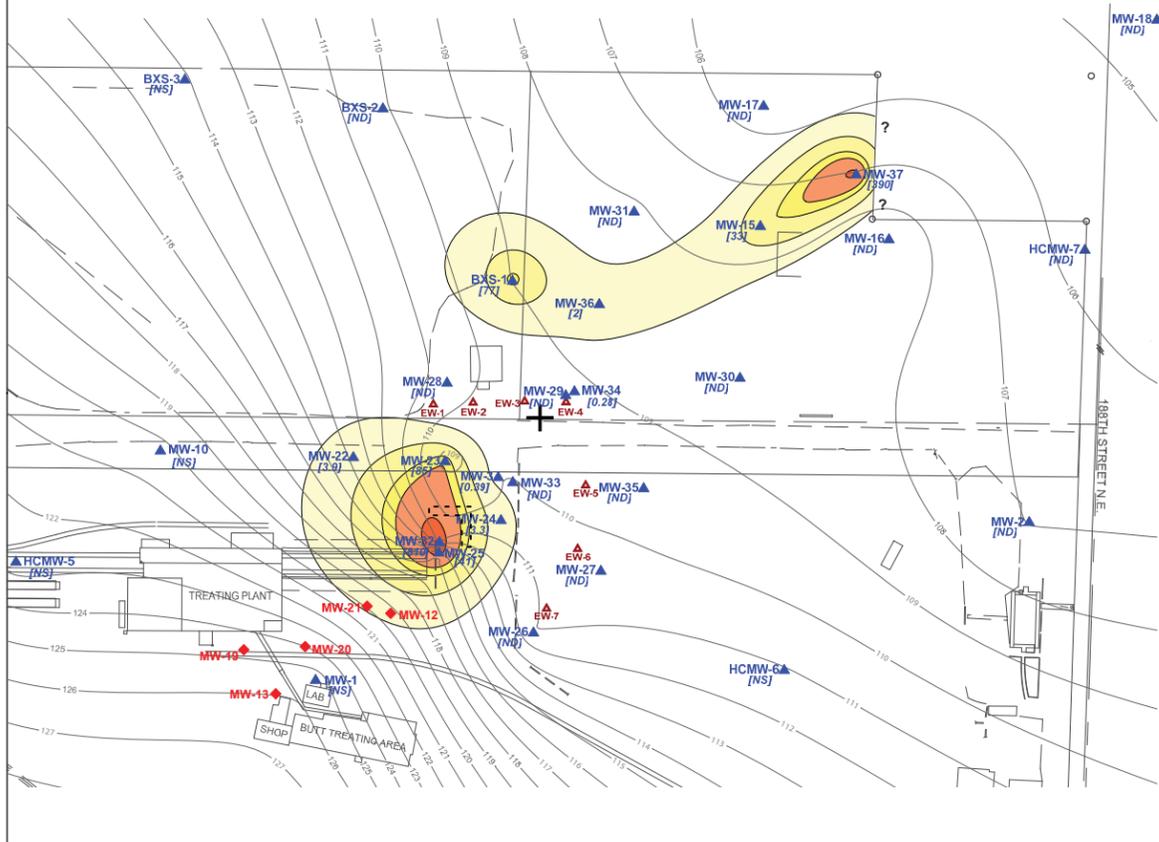


**MAP NOTES:**

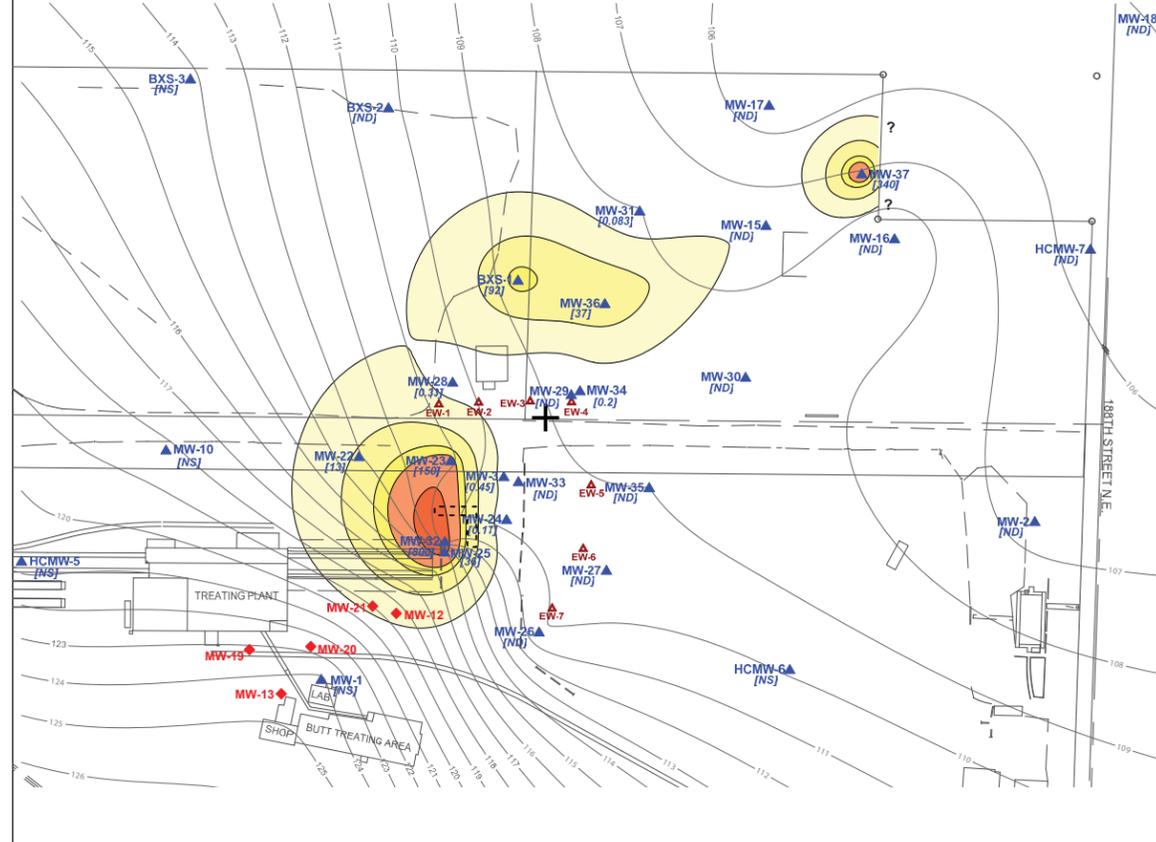
Date: July 27, 2016  
Data Sources: Premier Environmental Services, Inc., Figures 12-15, 03/13/14



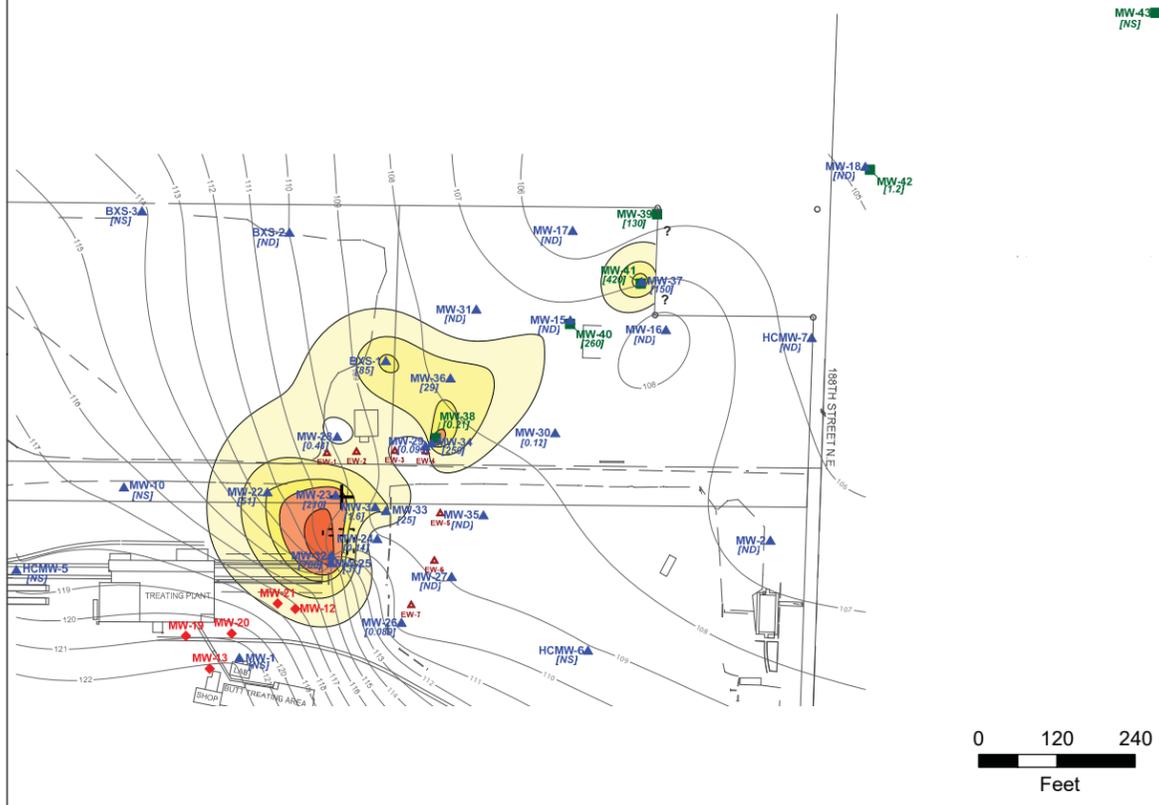
FEBRUARY 2010



MAY 2010



AUGUST 2010



NOVEMBER 2010

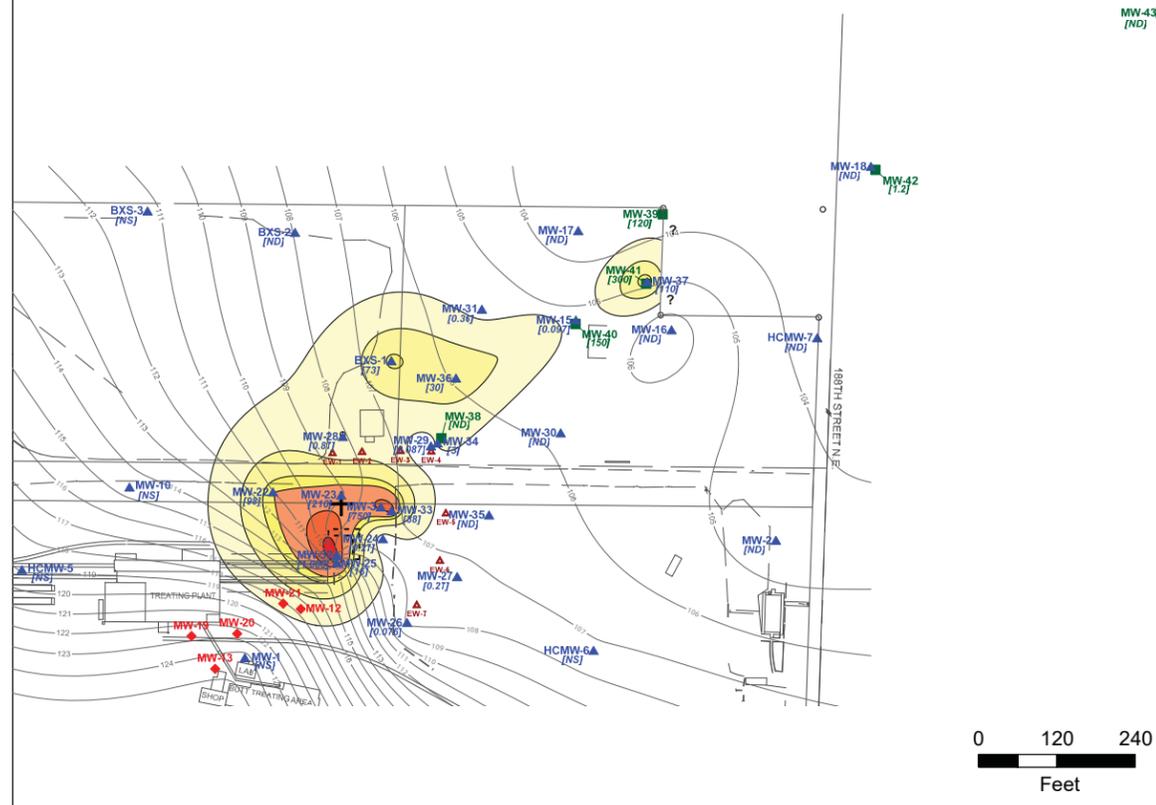
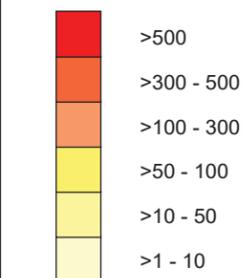


FIGURE 9  
Pentachlorophenol Isopleth Map: 2010  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

LEGEND

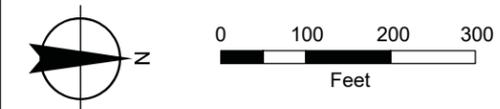
- ▲ Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- ◆ LNAPL Recovery Well
- ▲ Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NS Not Sampled
- + PCP Plume Center of Mass
- 107 - Groundwater Elevation Isopleth

Pentachlorophenol Concentration (ug/L)



PCP Plume Stability Data Summary

Month	Plume Area:	Plume Avg. Concentration:	Plume Mass:
February 2010	2.3 Acres	28.1 ug/L	1.6 Pounds
May 2010	2.7 Acres	28.9 ug/L	1.9 Pounds
August 2010	3.3 Acres	30.7 ug/L	2.5 Pounds
November 2010	3.7 Acres	35.4 ug/L	3.2 Pounds

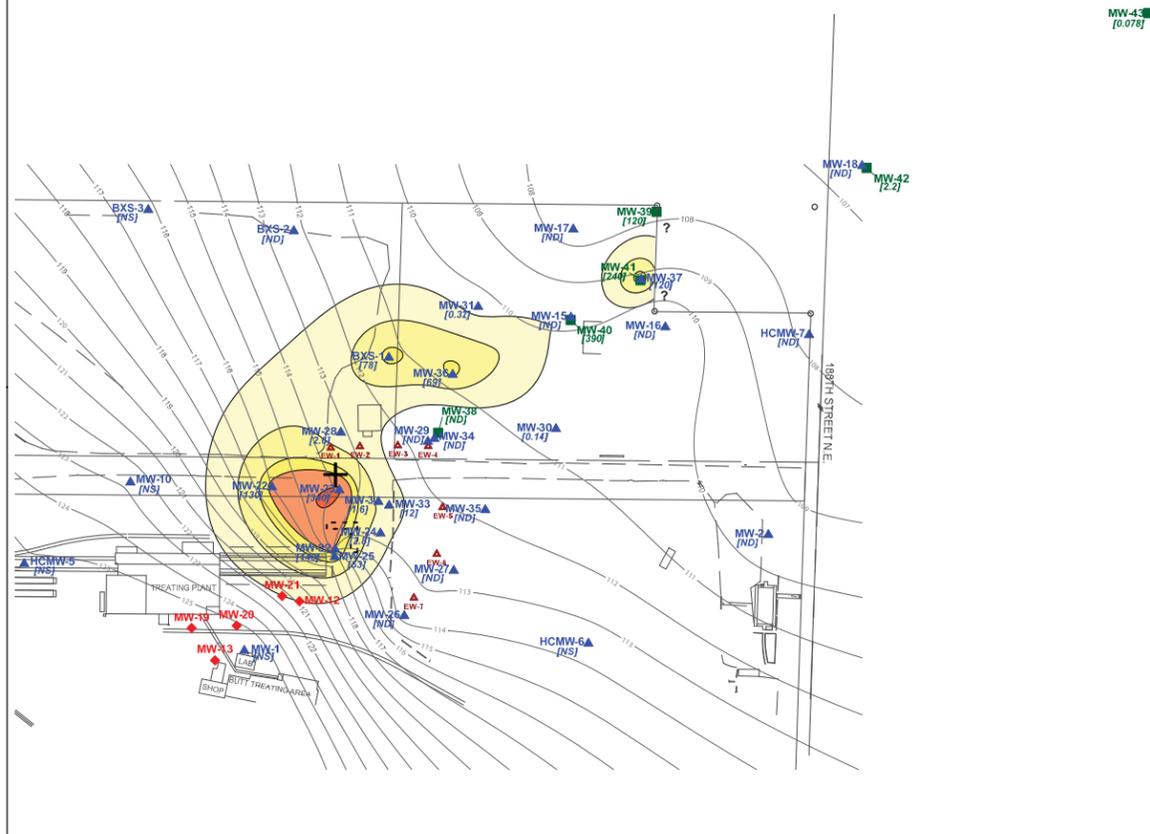


MAP NOTES:

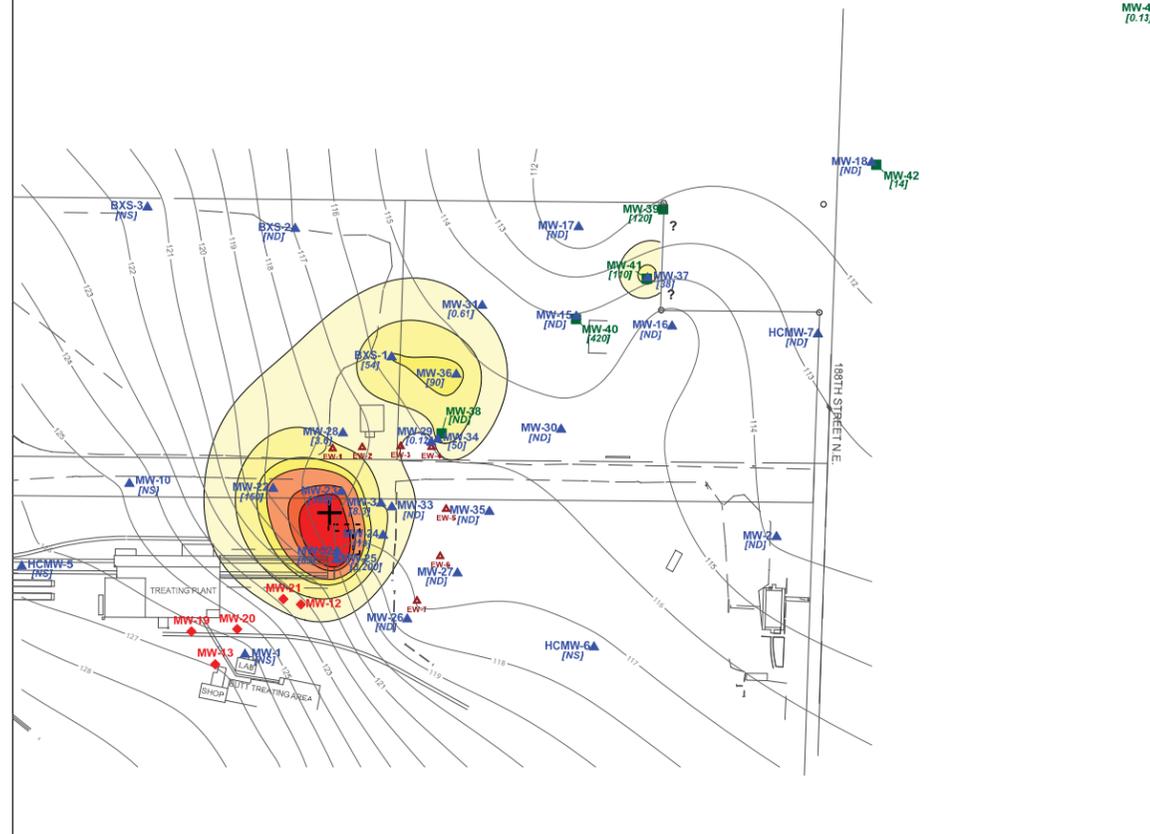
Date: July 27, 2016  
Data Sources: Premier Environmental Services, Inc., Figures 16-19, 03/13/14



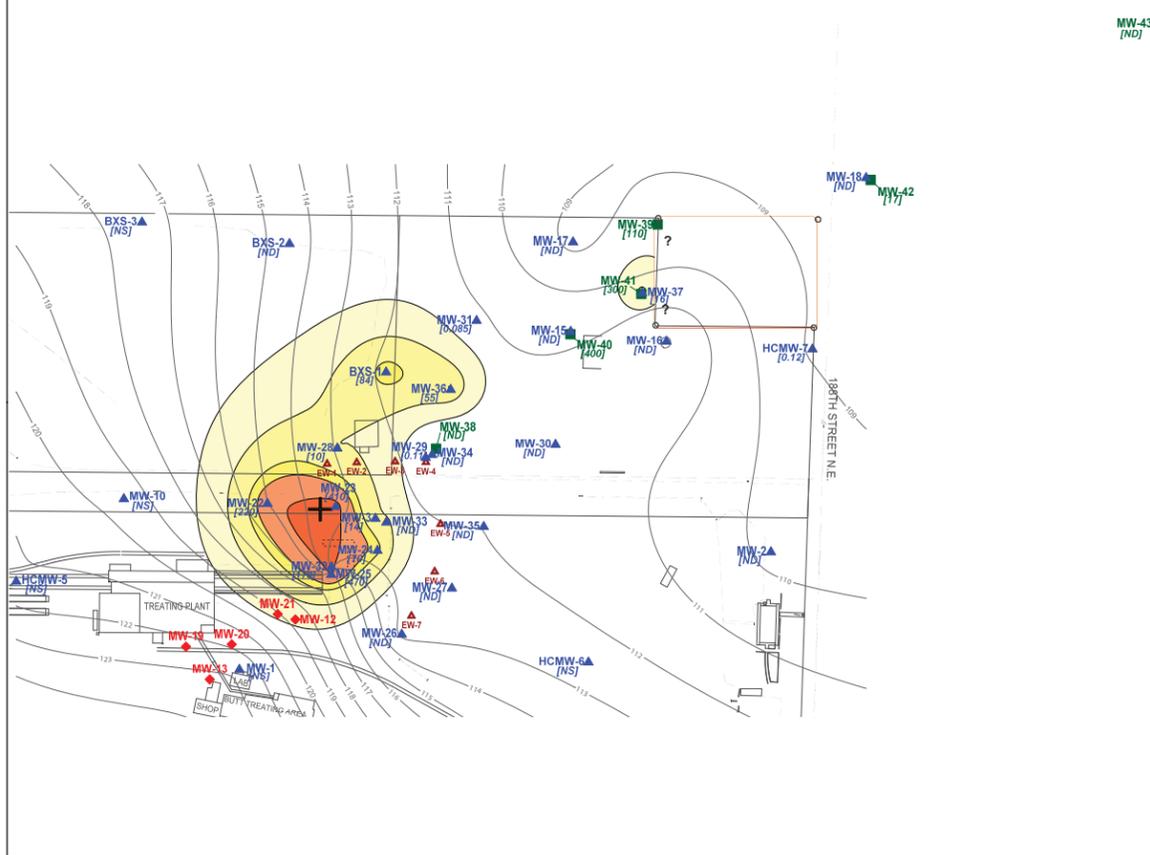
FEBRUARY 2011



MAY 2011



AUGUST 2011



NOVEMBER 2011

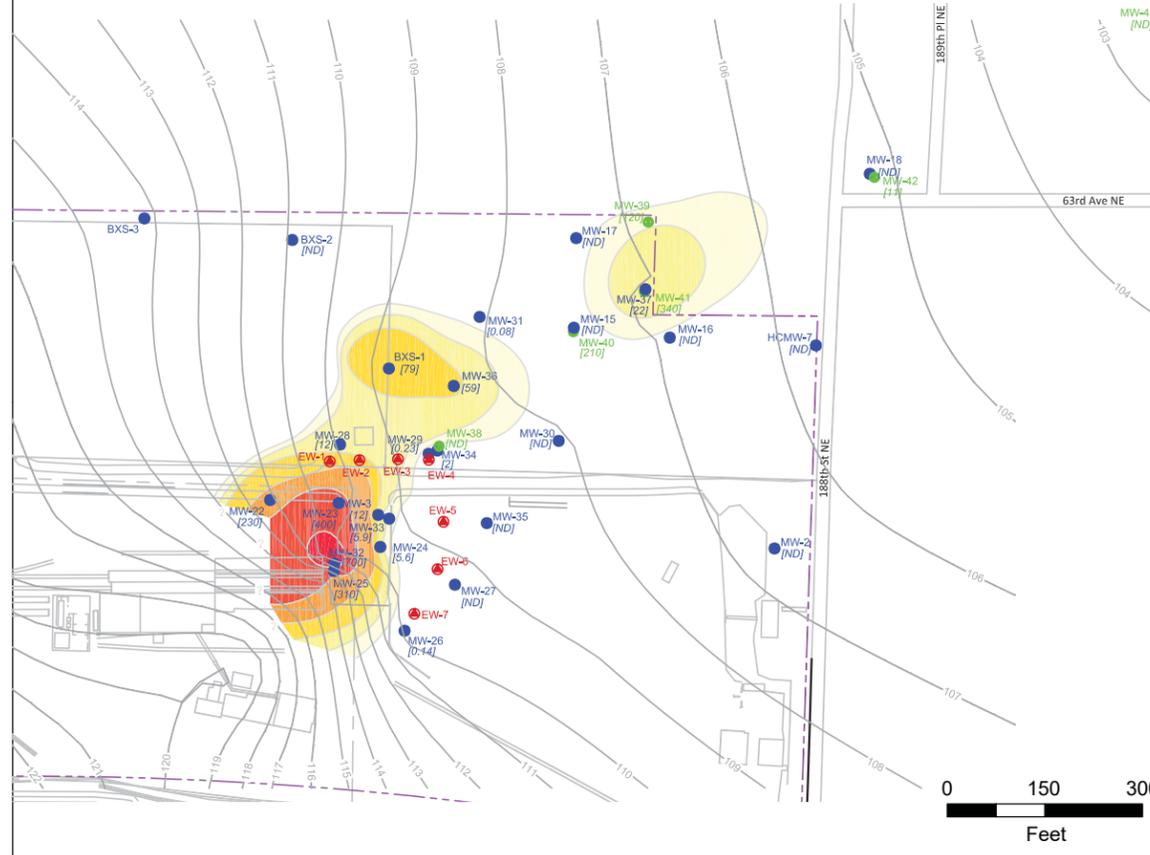


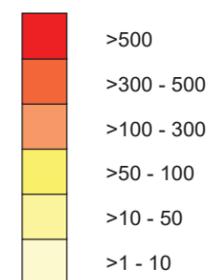
FIGURE 10

Pentachlorophenol Isopleth Map: 2011  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

LEGEND

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- LNAPL Recovery Well
- Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NS Not Sampled
- PCP Plume Center of Mass
- 107 - Groundwater Elevation Isopleth

Pentachlorophenol Concentration (ug/L)



PCP Plume Stability Data Summary

Month	Plume Area:	Plume Avg. Concentration:	Plume Mass:
February 2011	3.5 Acres	26.3 ug/L	2.2 Pounds
May 2011	3.6 Acres	70.1 ug/L	6.2 Pounds
August 2011	3.4 Acres	45.8 ug/L	3.8 Pounds
November 2011	Not Measured	Not Measured	Not Measured

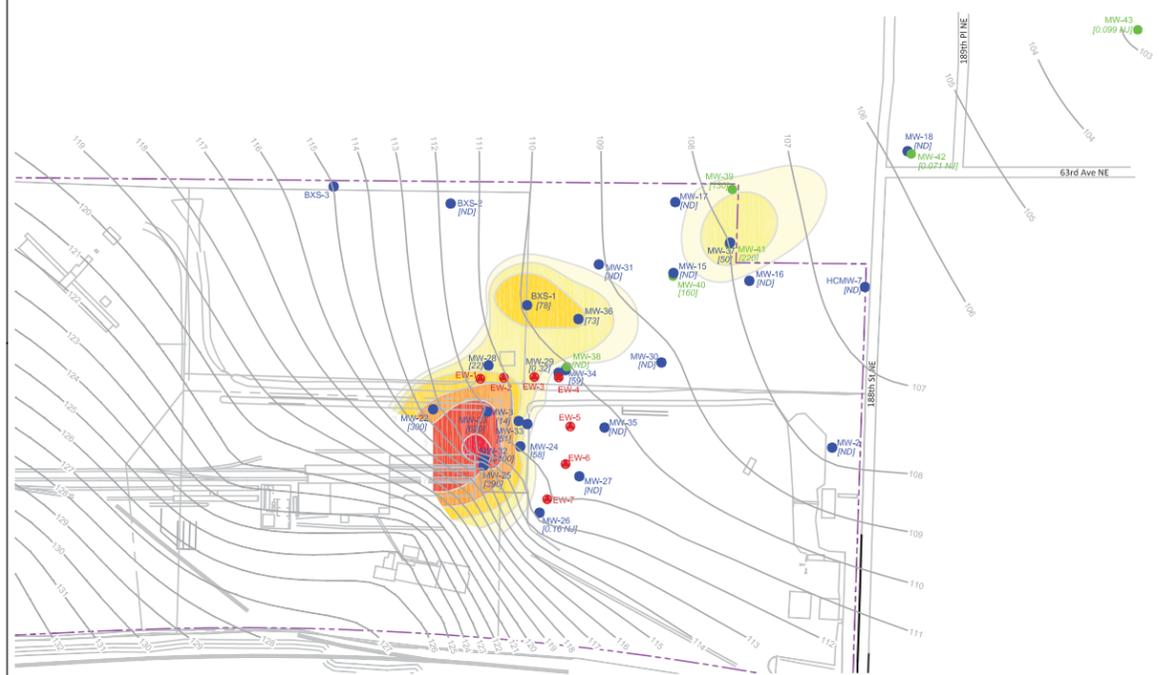


MAP NOTES:

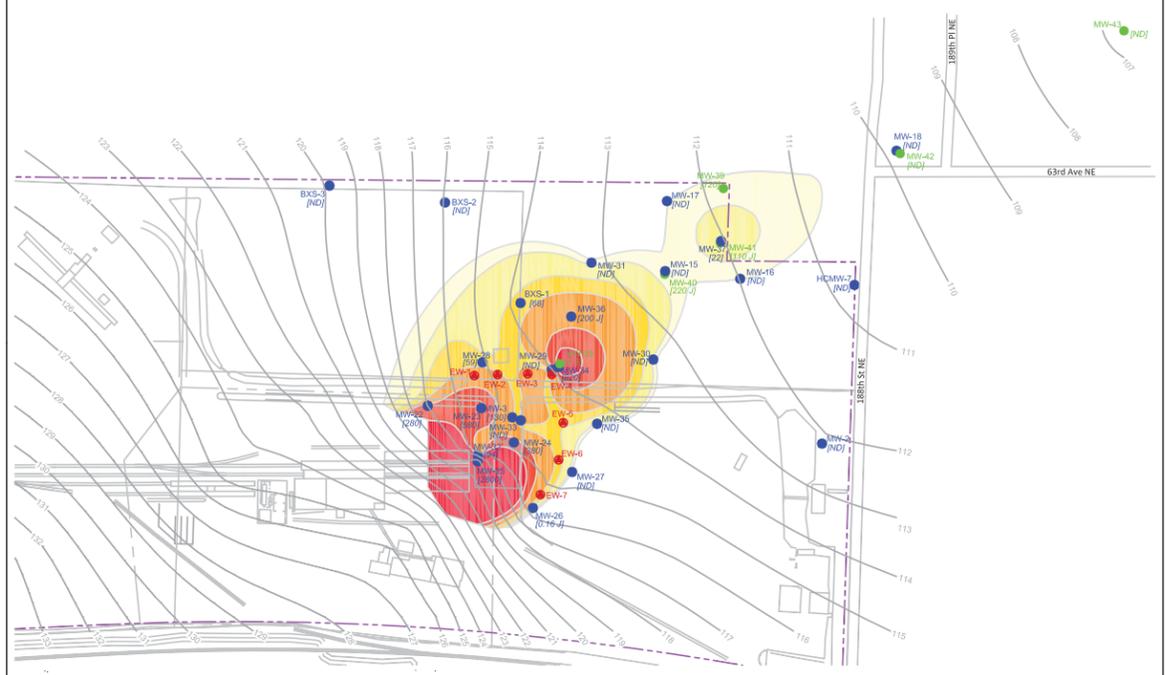
Date: July 27, 2016  
Data Sources: Premier Environmental Services, Inc., EarthCon, AMEC, Figures 20-23, 03/13/14



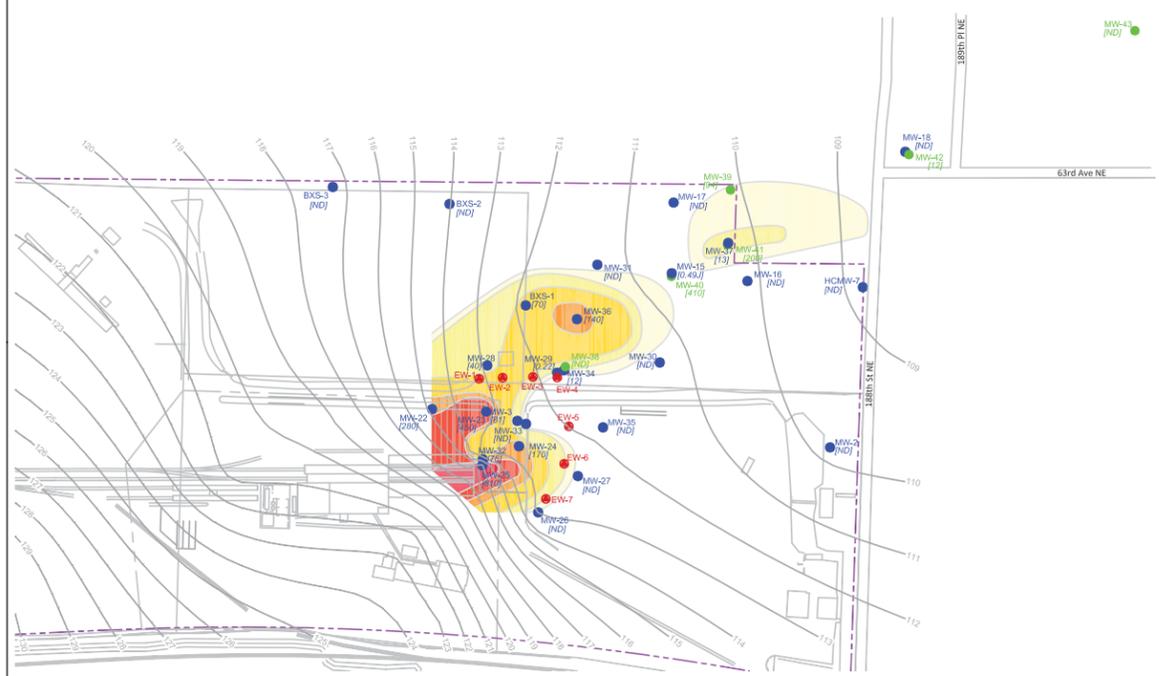
FEBRUARY 2012



MAY 2012



AUGUST 2012



NOVEMBER 2012

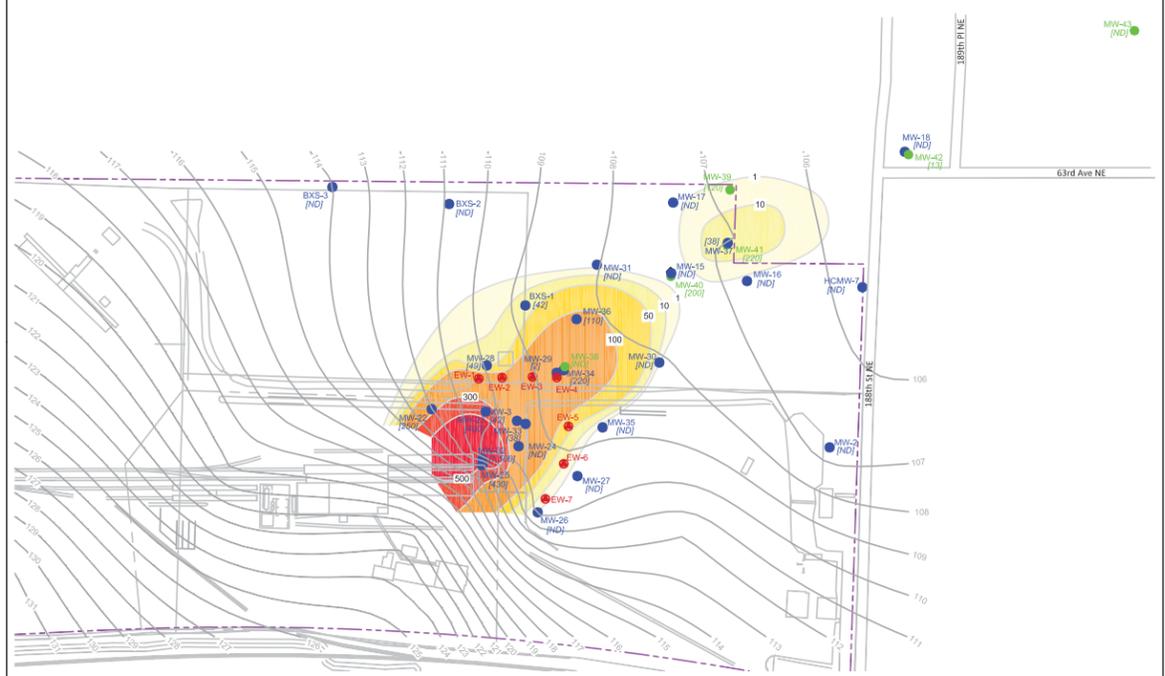
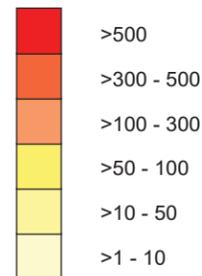


FIGURE 11  
Pentachlorophenol Isopleth Map: 2012  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

**LEGEND**

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- LNAPL Recovery Well
- Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NA Not Analyzed
- 107 - Groundwater Elevation Isopleth

**Pentachlorophenol Concentration (ug/L)**

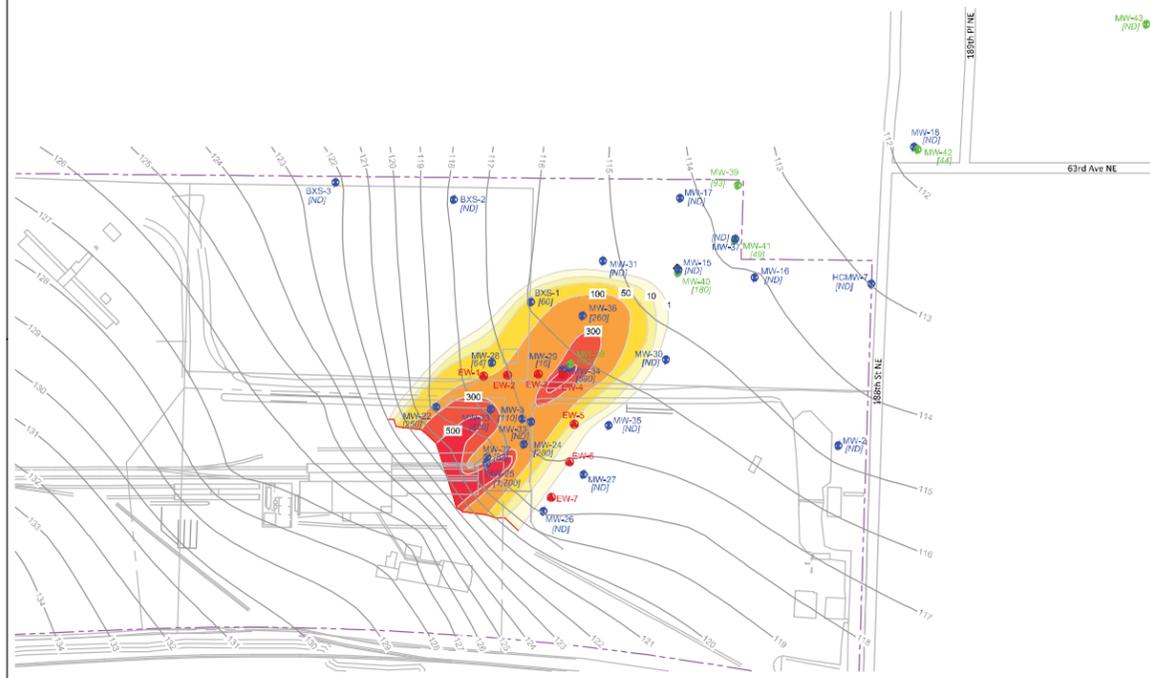


**MAP NOTES:**

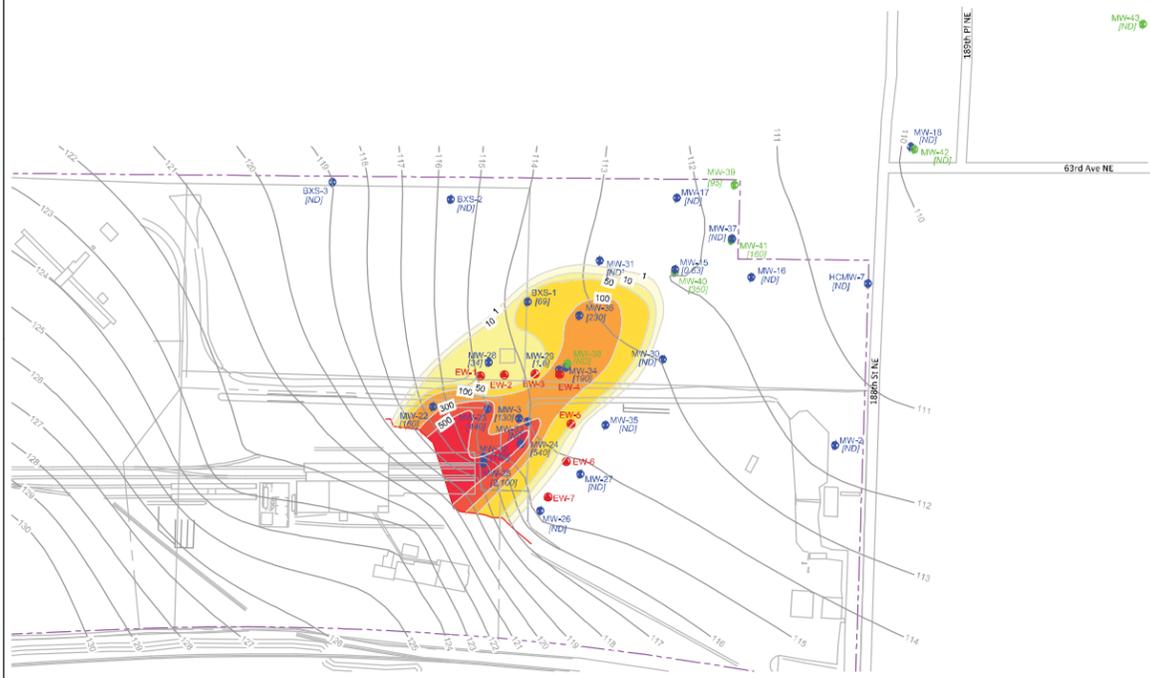
Date: July 27, 2016  
Data Sources: AMEC, Figures 24-27,  
March 2014



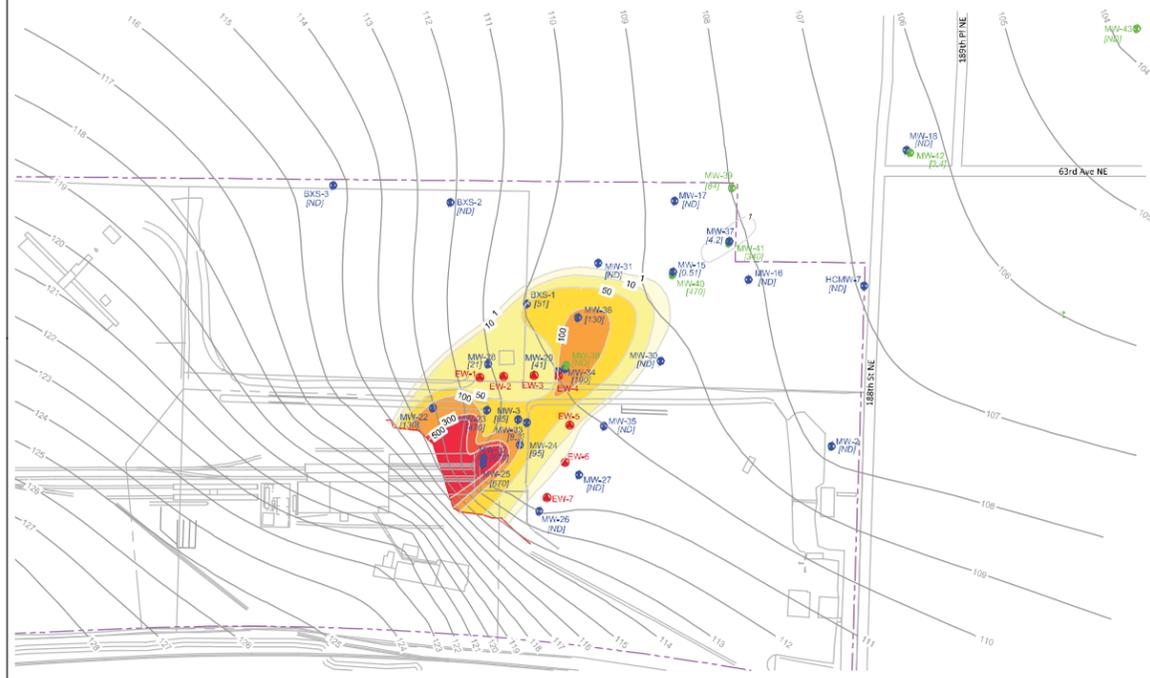
FEBRUARY 2013



JUNE 2013



AUGUST 2013



DECEMBER 2013

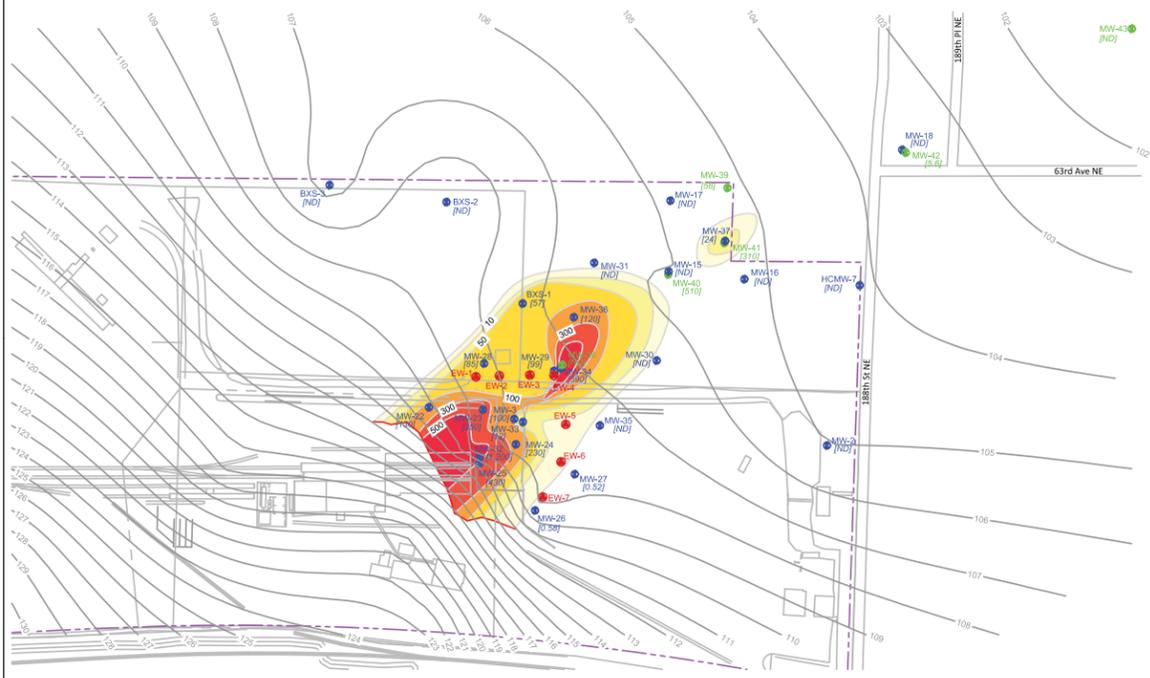
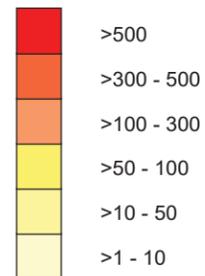


FIGURE 12  
Pentachlorophenol Isopleth Map: 2013  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

**LEGEND**

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- LNAPL Recovery Well
- Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NA Not Analyzed
- 107 - Groundwater Elevation Isopleth

**Pentachlorophenol Concentration (ug/L)**

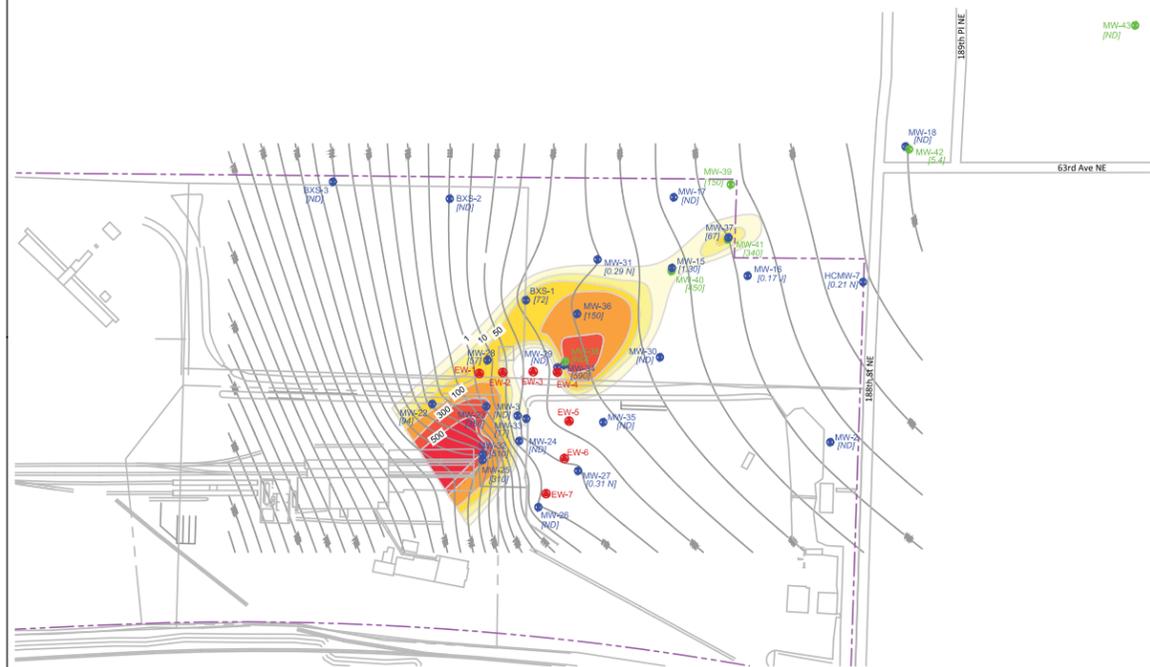


**MAP NOTES:**

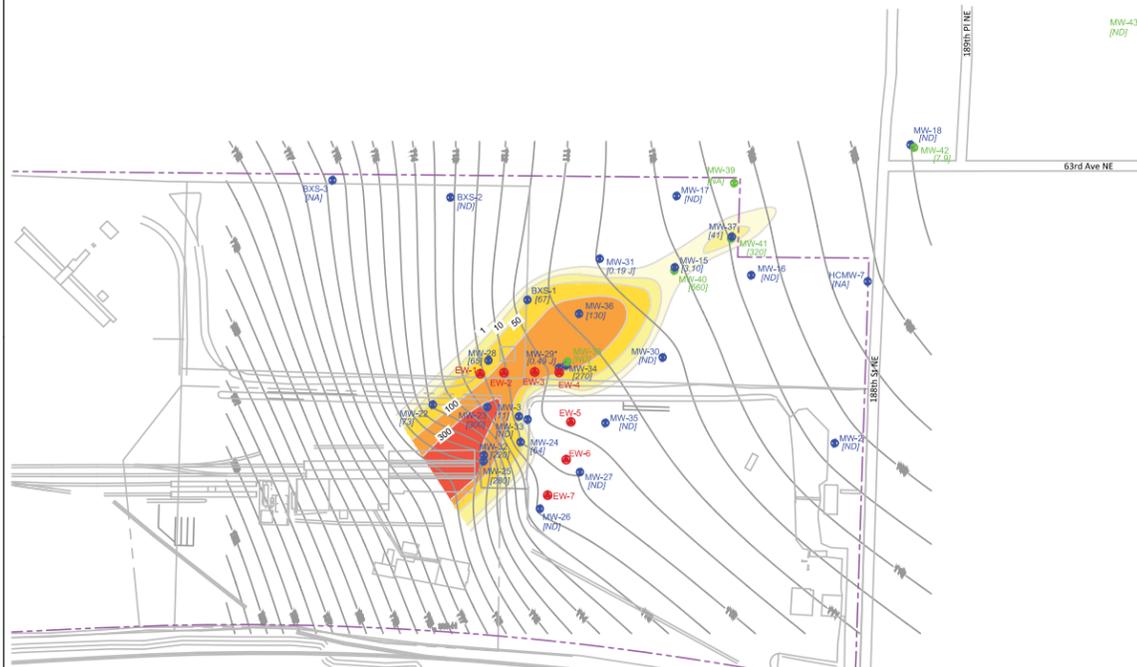
Date: July 27, 2016  
Data Sources: AMEC, Figures 28-31,  
March 2014



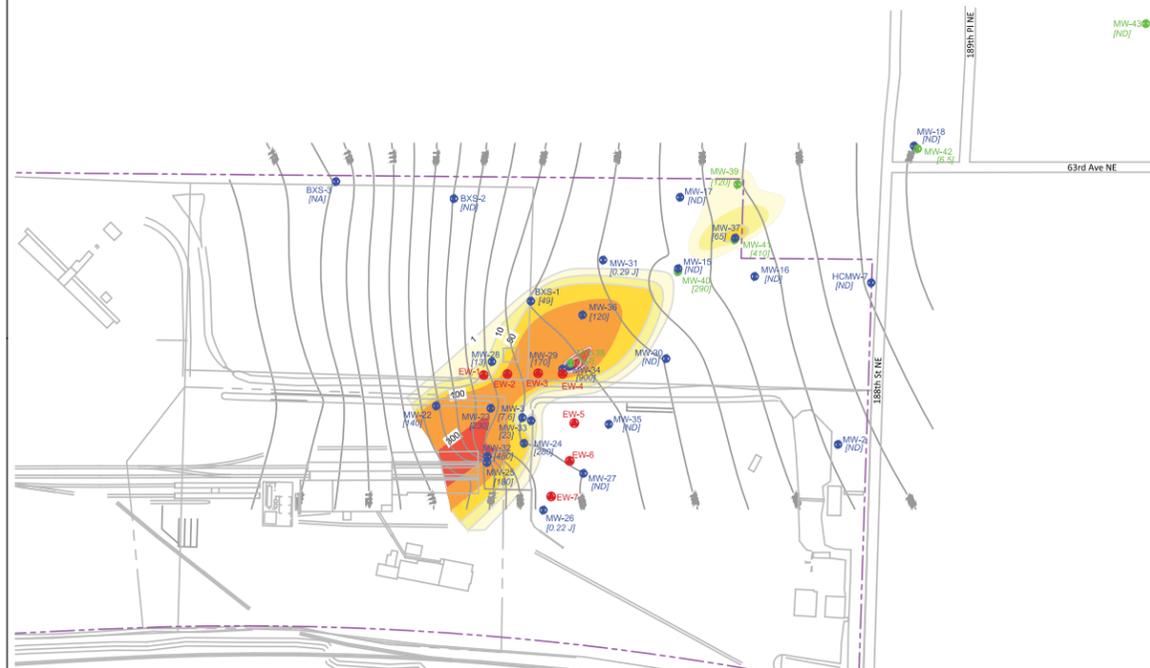
MARCH 2014



JUNE 2014



SEPTEMBER 2014



NOVEMBER 2014

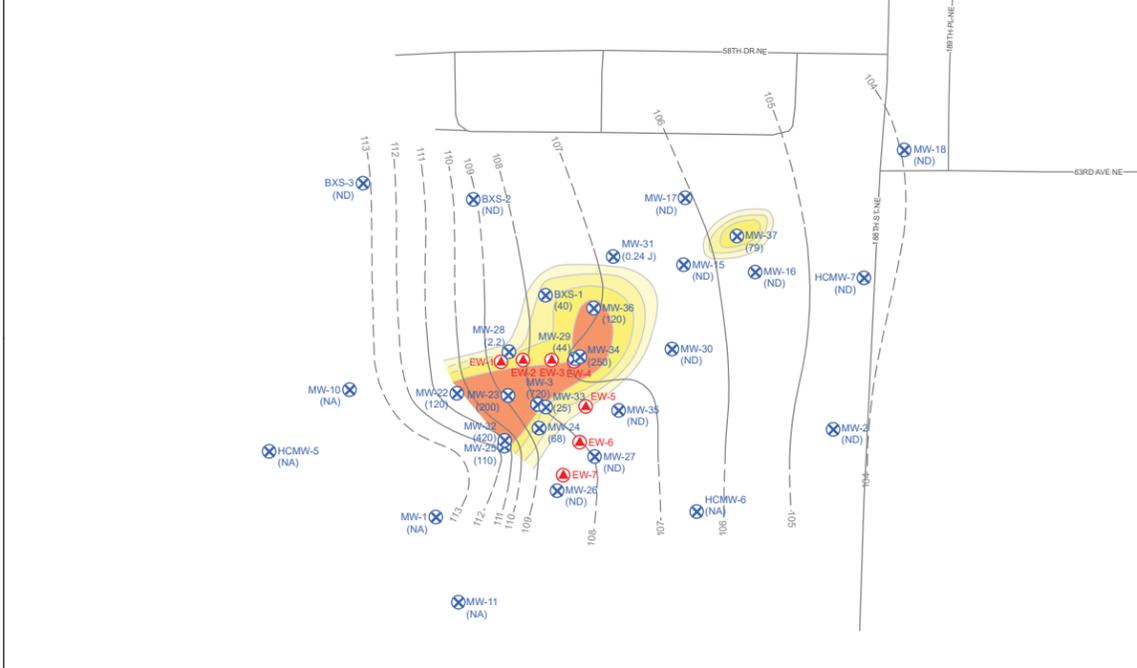
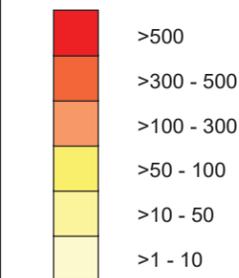


FIGURE 13  
Pentachlorophenol Isopleth Map: 2014  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

**LEGEND**

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- LNAPL Recovery Well
- Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NA Not Analyzed
- 107 - Groundwater Elevation Isopleth

**Pentachlorophenol Concentration (ug/L)**

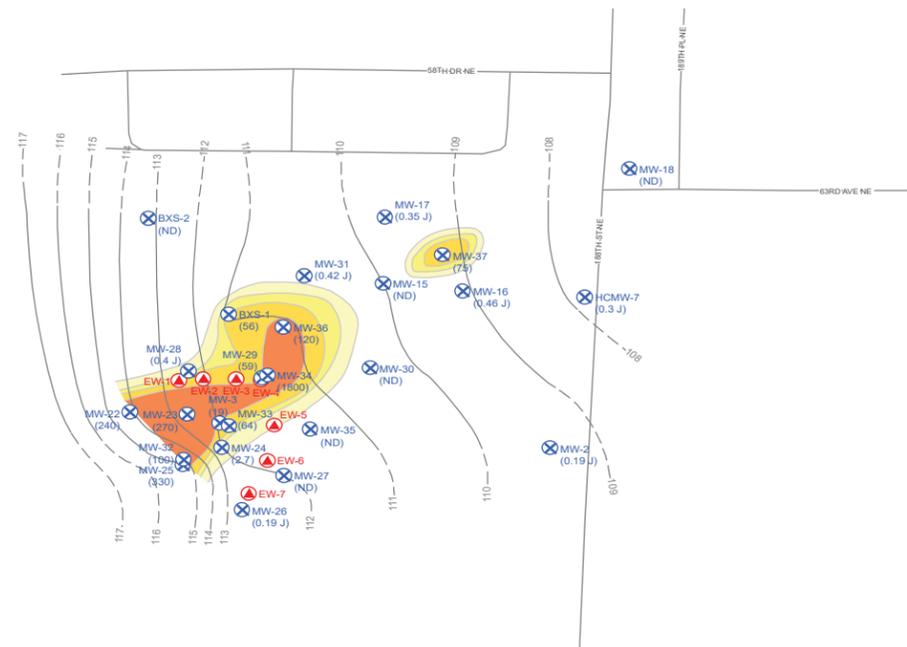


**MAP NOTES:**

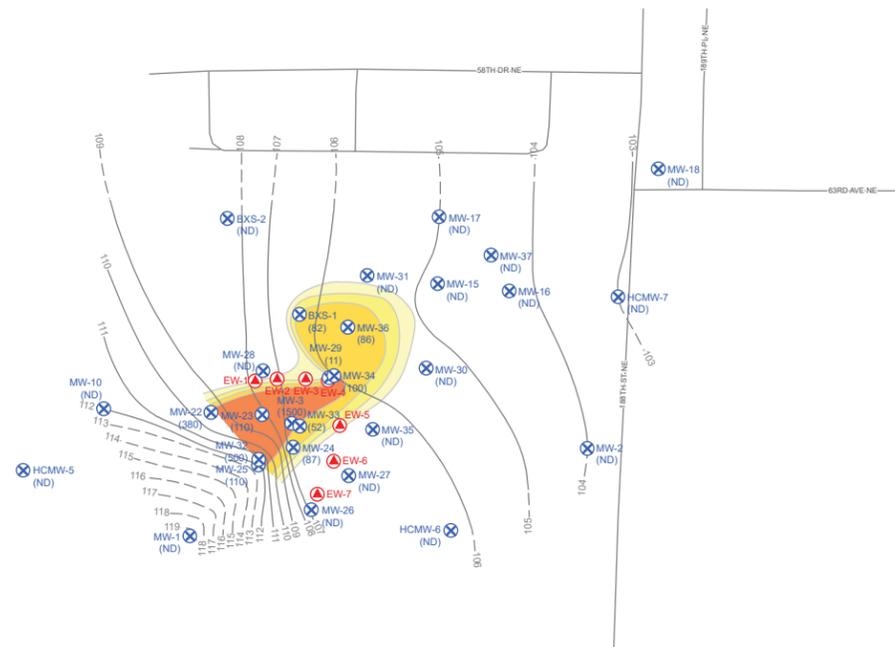
Date: July 27, 2016  
Data Sources: AMEC, Figures 32-34,  
March 2014



FEBRUARY 2015



SEPTEMBER 2015



DECEMBER 2015

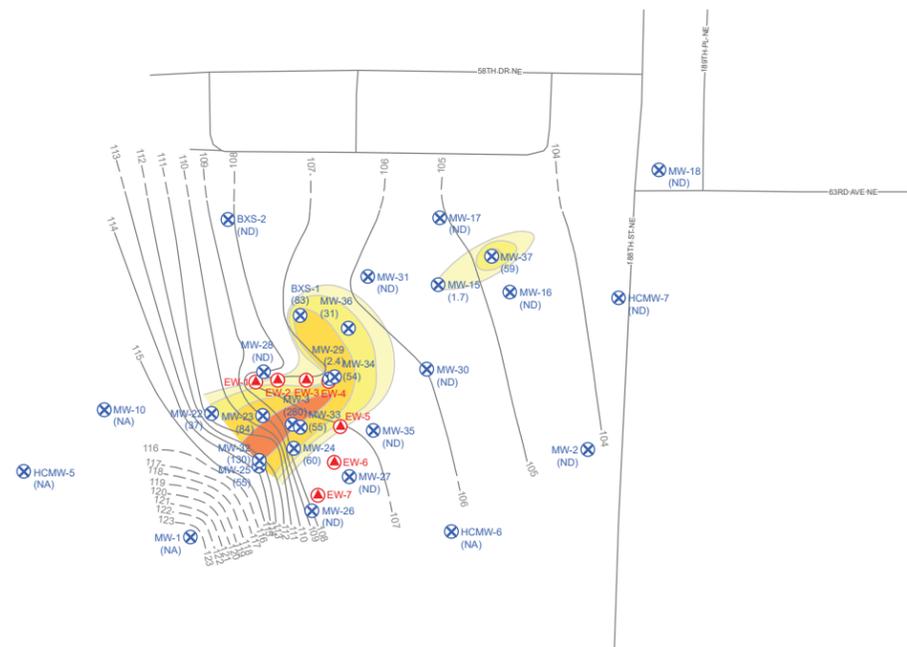
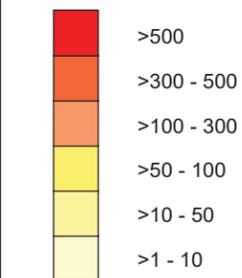


FIGURE 14  
Pentachlorophenol Isopleth Map: 2015  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

**LEGEND**

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- LNAPL Recovery Well
- Groundwater Extraction Well
- Infiltration Gallery
- ND Not-Detected
- NA Not Analyzed
- 107 - Groundwater Elevation Isopleth

**Pentachlorophenol Concentration (ug/L)**

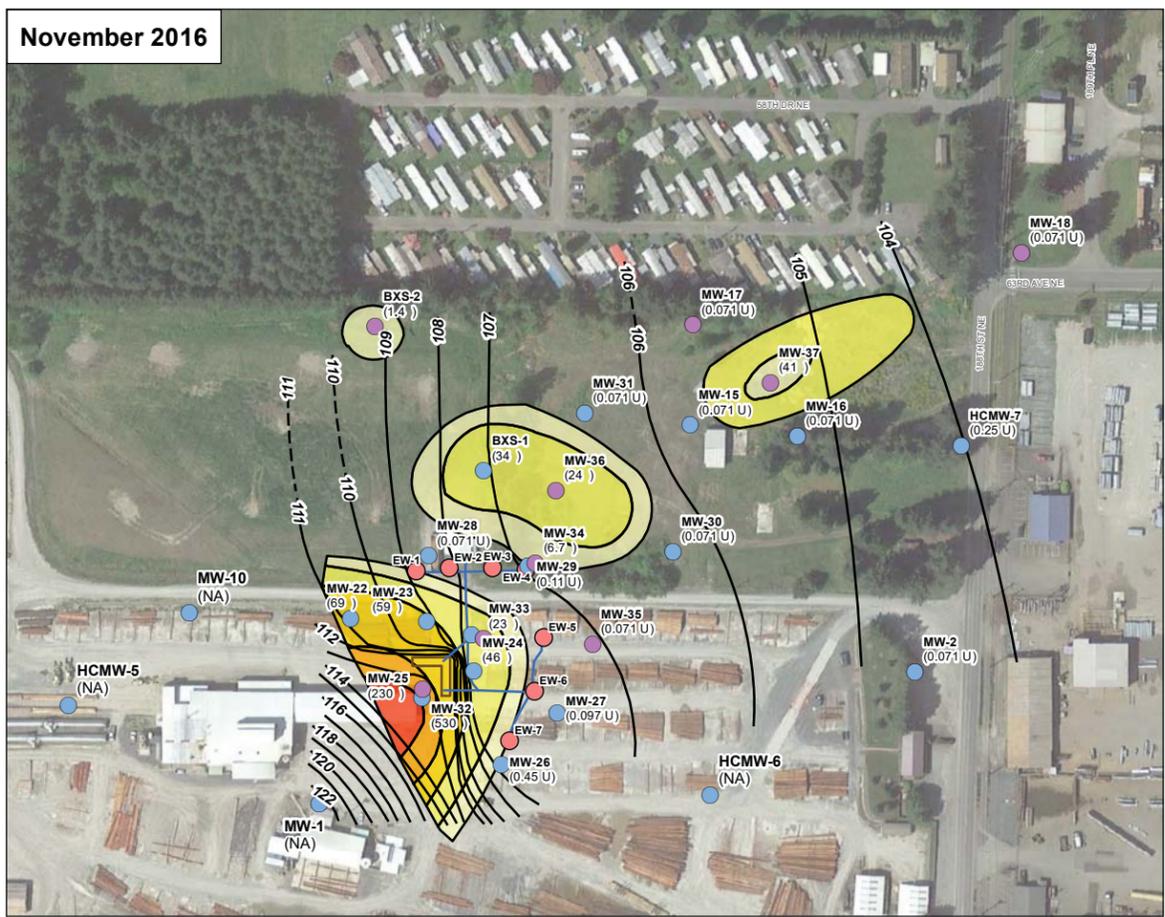
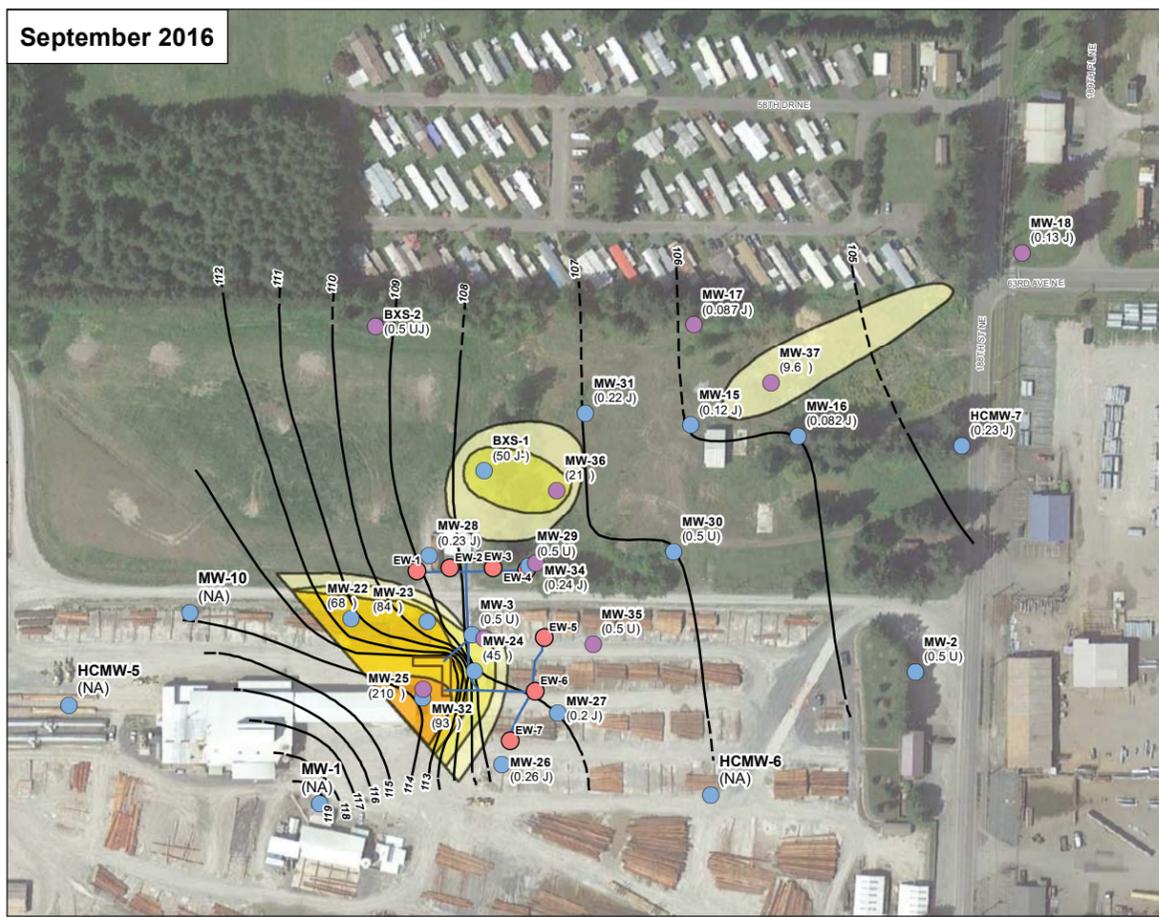
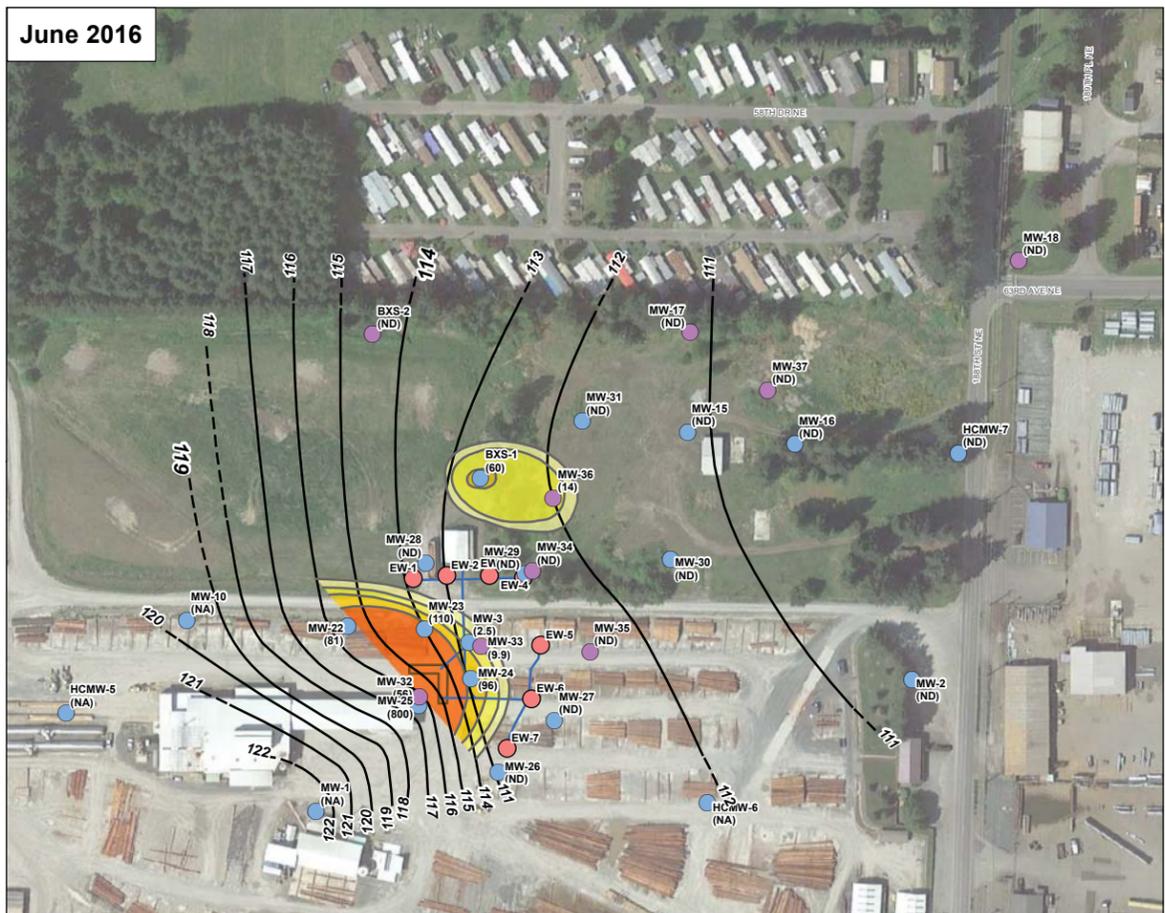
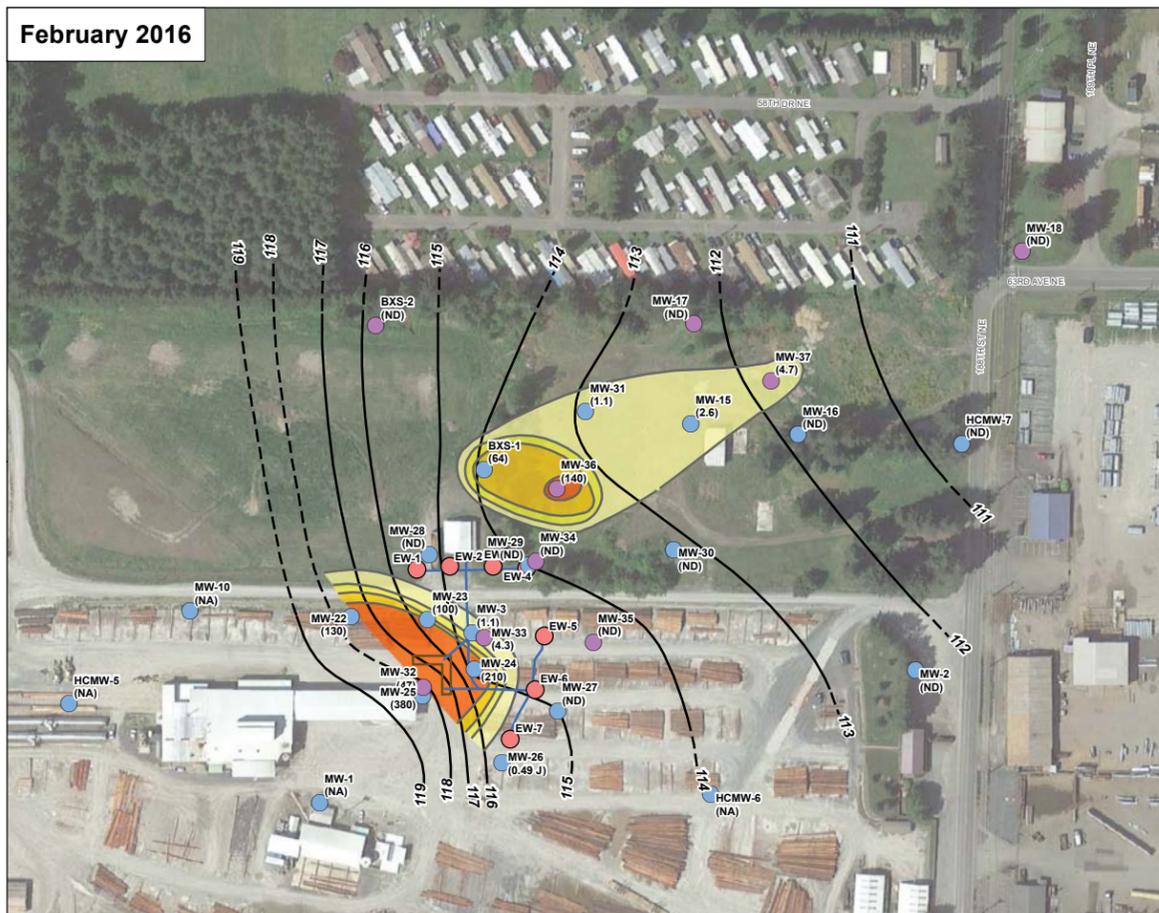


**NOTE:**  
The second quarter 2015 monitoring event was postponed, with EPA's approval, due to recirculation trench rehabilitation work conducted in July 2015.



**MAP NOTES:**  
Date: July 27, 2016  
Data Sources: AMEC, Figures 32-34,  
March 2014





**FIGURE 15**  
**Pentachlorophenol Isopleth**  
**Map: 2016**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

**LEGEND**

- Shallow Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)
- Intermediate Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

**PCP Concentrations (µg/L)**

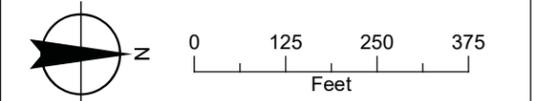
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench
- Groundwater Elevation Contours (dashed where inferred)

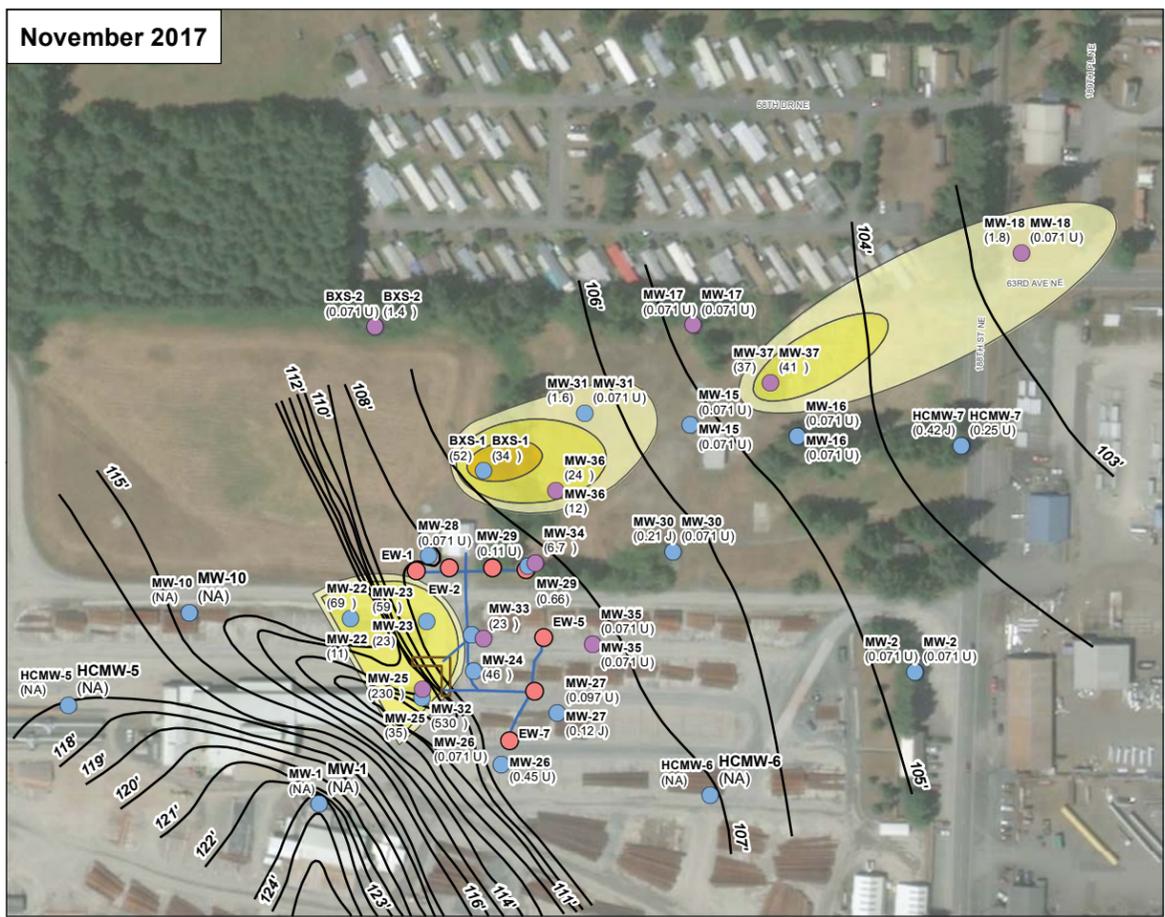
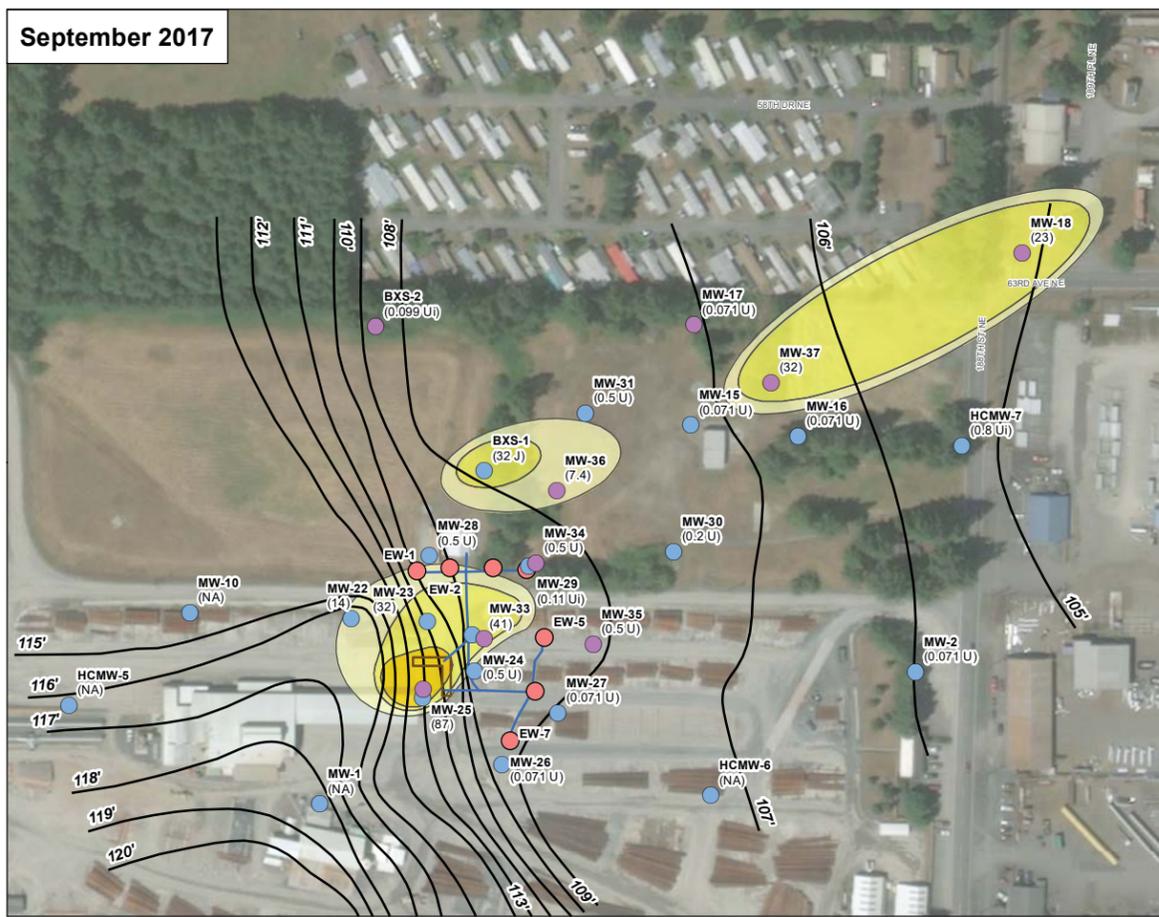
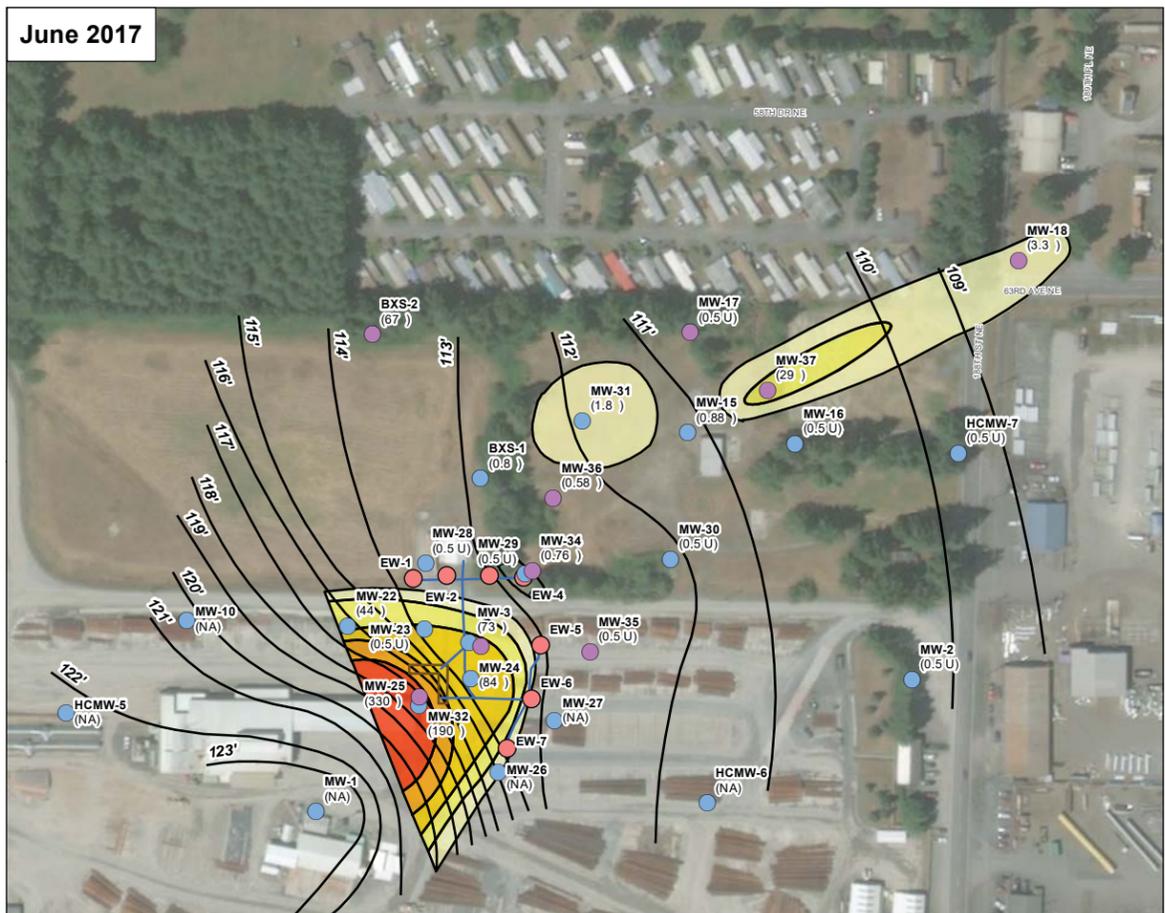
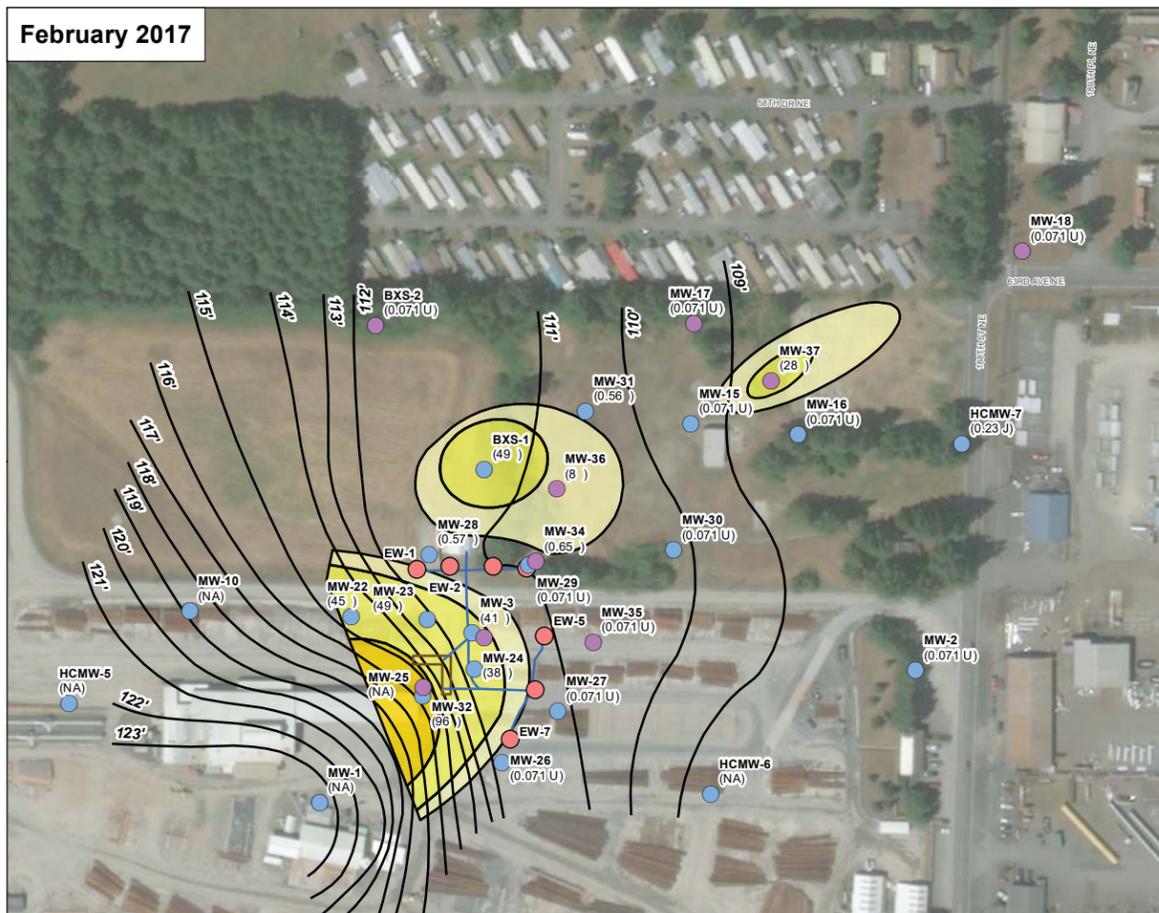
**NOTES:**

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed  
 ND Not Detected



Date: March 3, 2017  
 Data Sources: AMEC, ESRI, Air photo taken on May 2, 2015 by Google Earth





**FIGURE 16**  
**Pentachlorophenol Isopleth**  
**Map: 2017**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

**LEGEND**

- Shallow Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)
- Intermediate Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

**PCP Concentrations (µg/L)**

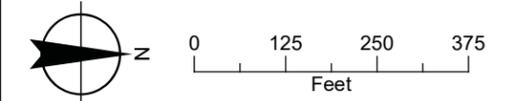
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench
- Groundwater Elevation Contours (dashed where inferred)

**NOTES:**

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed  
 ND Not Detected

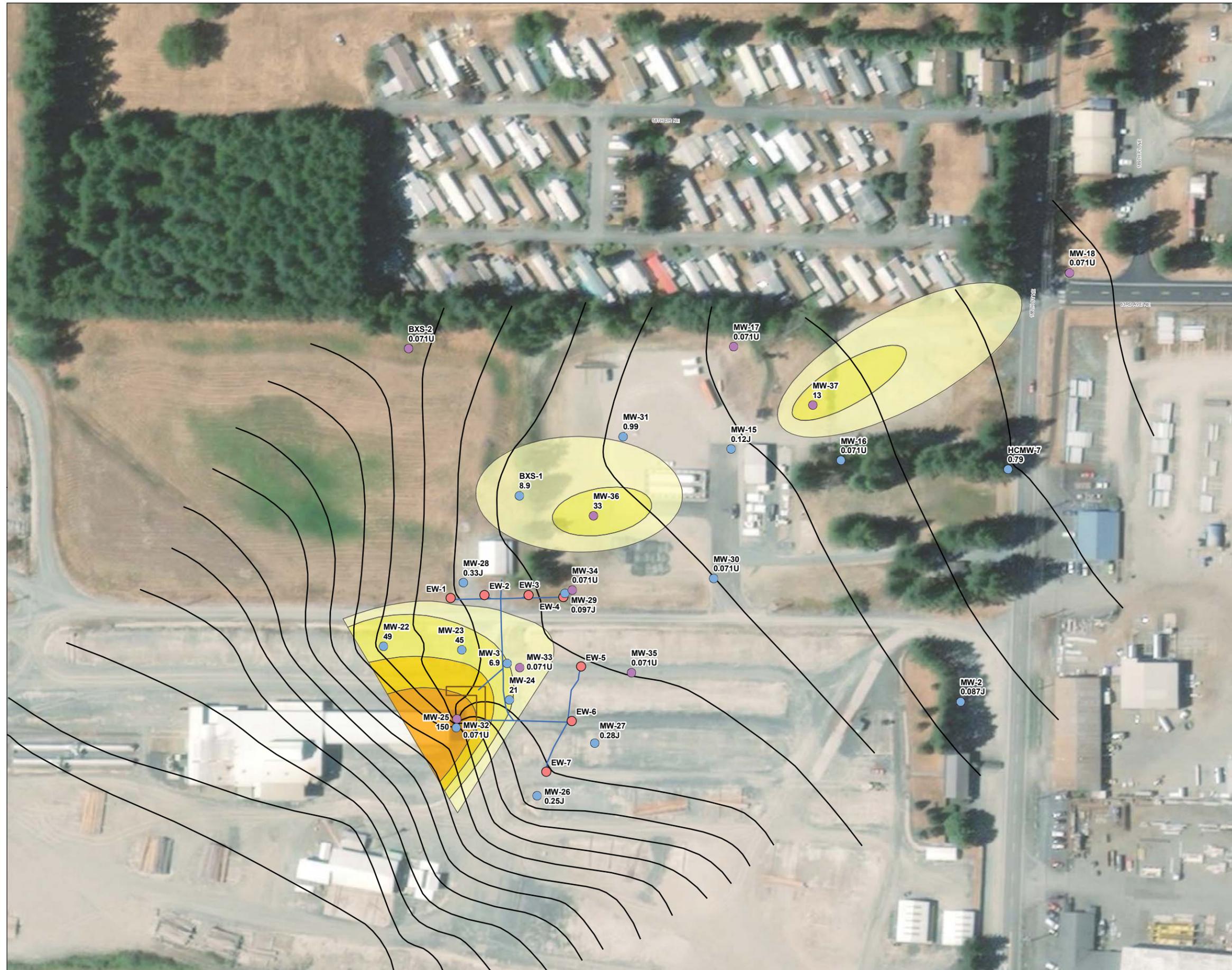


Date: March 20, 2018  
 Data Sources: AMEC, ESRI, Digiglobe 2016

**FIGURE 17**

**Pentachlorophenol Isopleth Map: First Quarter 2018**

Former J.H. Baxter  
Wood Treating Facility  
Arlington, Washington



**LEGEND**

- Shallow Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L) March 2018
- Intermediate Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L) March 2018

**PCP Concentrations (µg/L)**

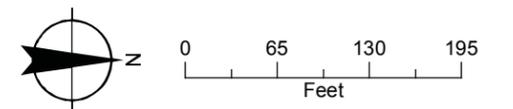
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench
- Groundwater Elevation Contours (dashed where inferred)

**NOTES:**

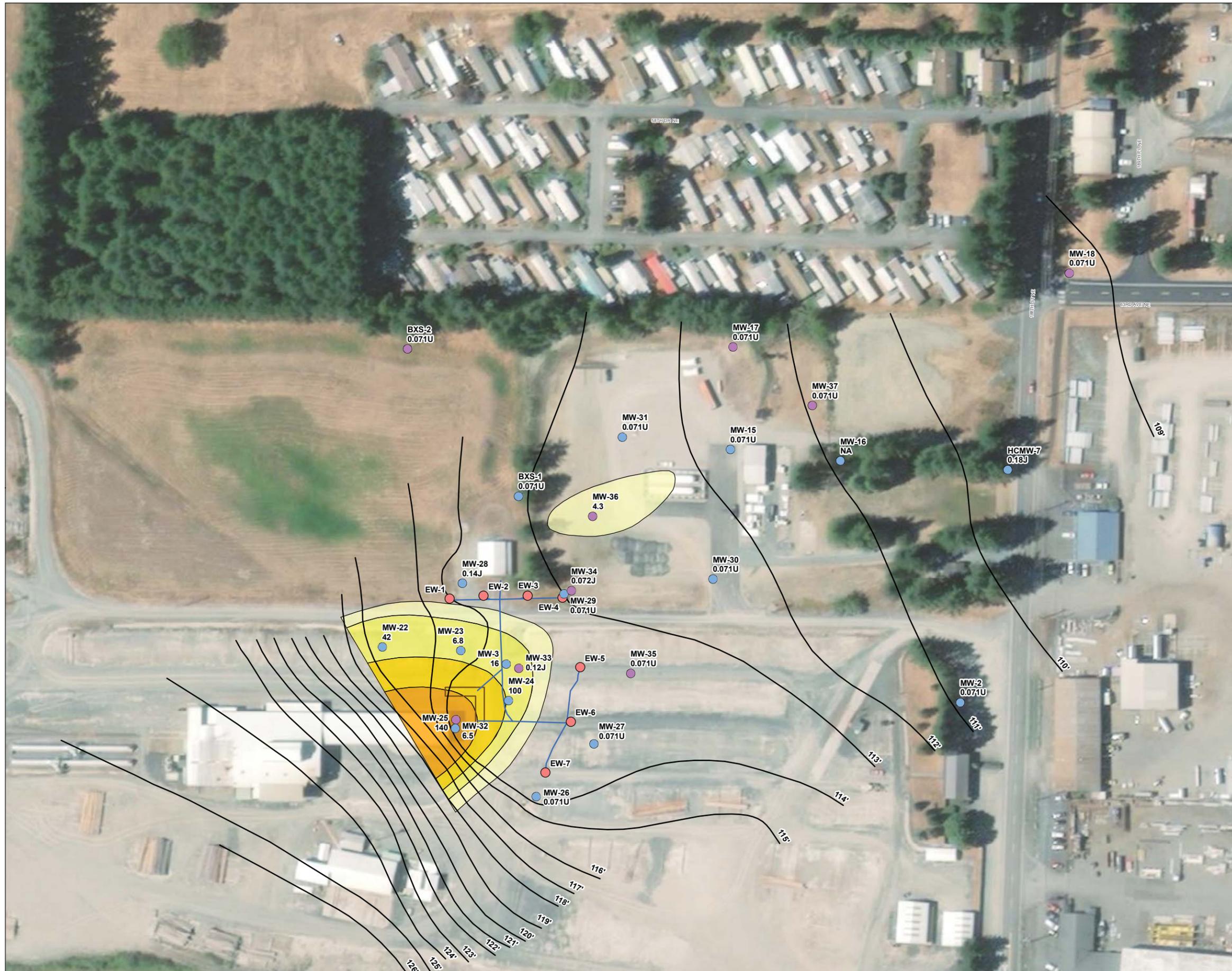
1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
NA Not Analyzed



Date: September 19, 2018  
Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP



**FIGURE 18**  
**Pentachlorophenol Isopleth**  
**Map: Second Quarter 2018**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington



**LEGEND**

- Shallow Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L) June 2018
- Intermediate Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L) June 2018

**PCP Concentrations (µg/L)**

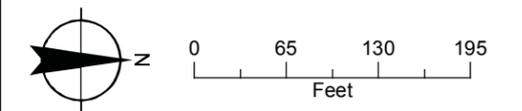
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench
- Groundwater Elevation Contours (dashed where inferred)

**NOTES:**

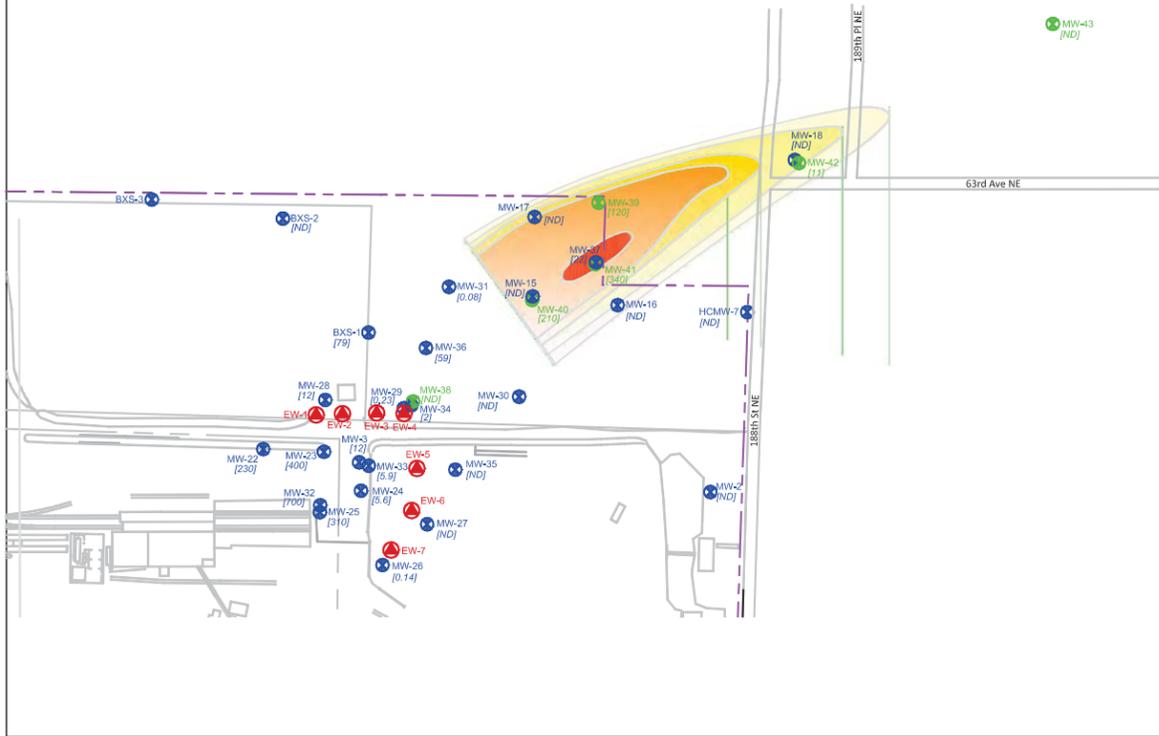
1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed  
 U Not Detected



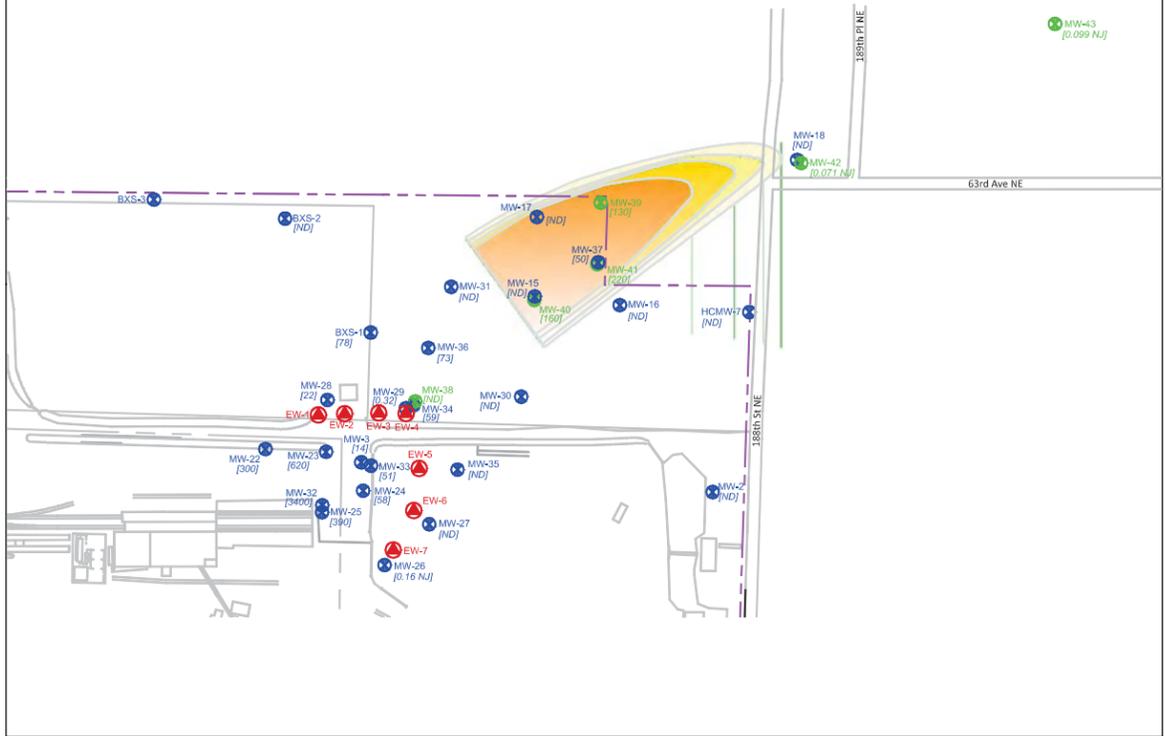
Date: September 19, 2018  
 Data Sources: AMEC, ESRI, Air photo taken  
 2015 by NAIP



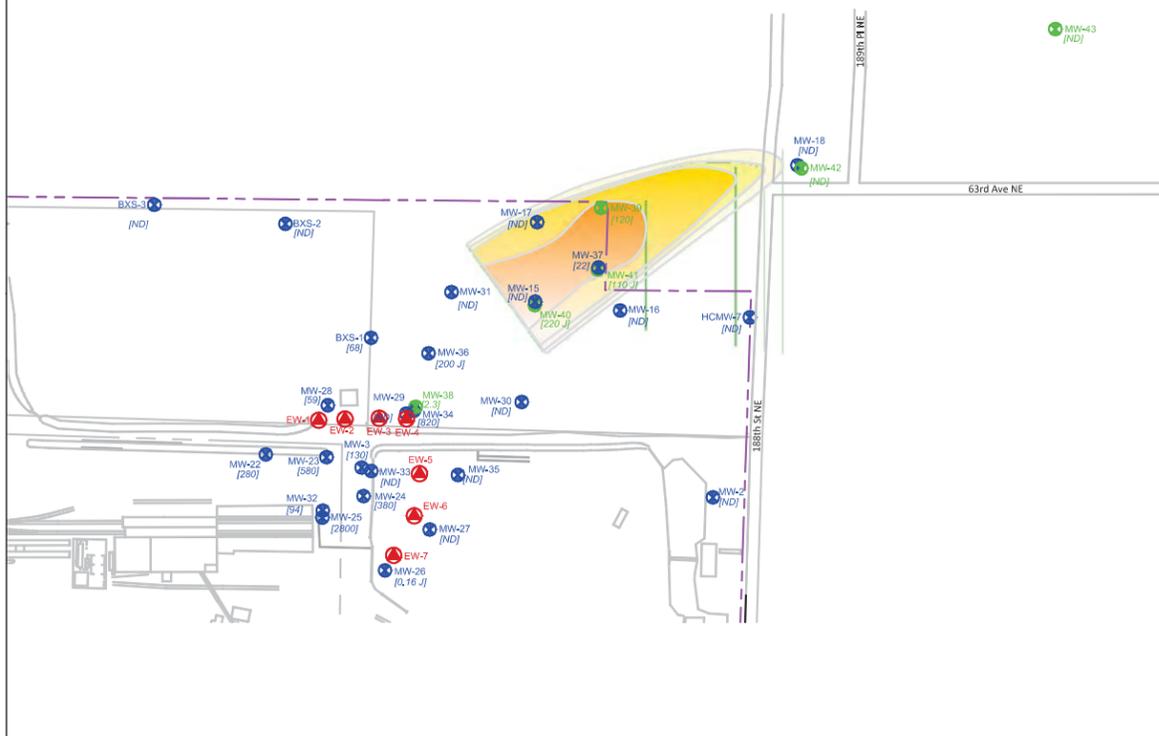
NOVEMBER 2011



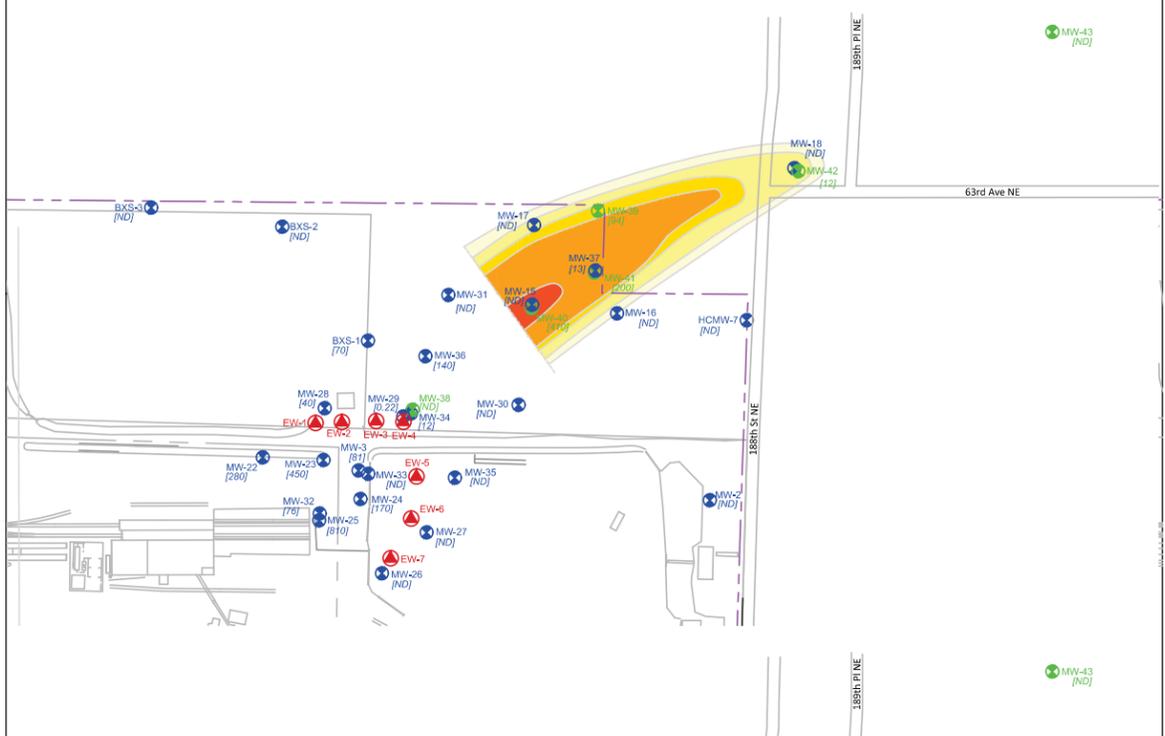
FEBRUARY 2012



MAY 2012

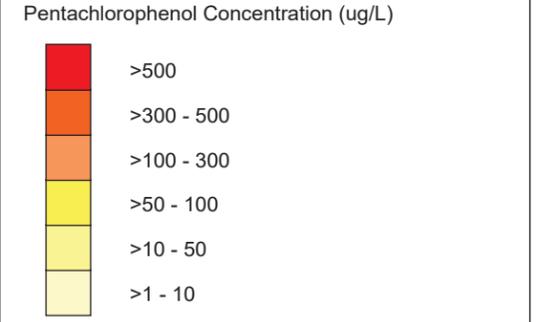


AUGUST 2012



**FIGURE 19**  
**Pentachlorophenol Isopleth Map,**  
**Deep Zone: Fourth Quarter 2011 -**  
**Third Quarter 2012**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

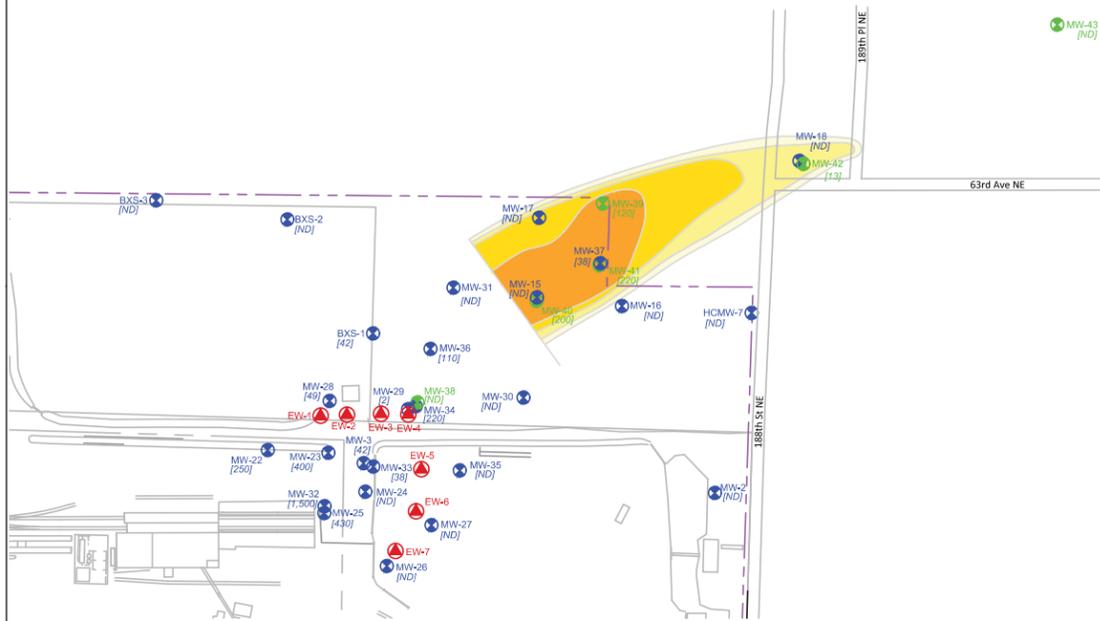
- LEGEND**
- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
  - Deep Monitoring Well and PCP Concentration (ug/L)
  - Groundwater Extraction Well
  - Site Boundary
  - ND Not-Detected
  - NA Not Analyzed



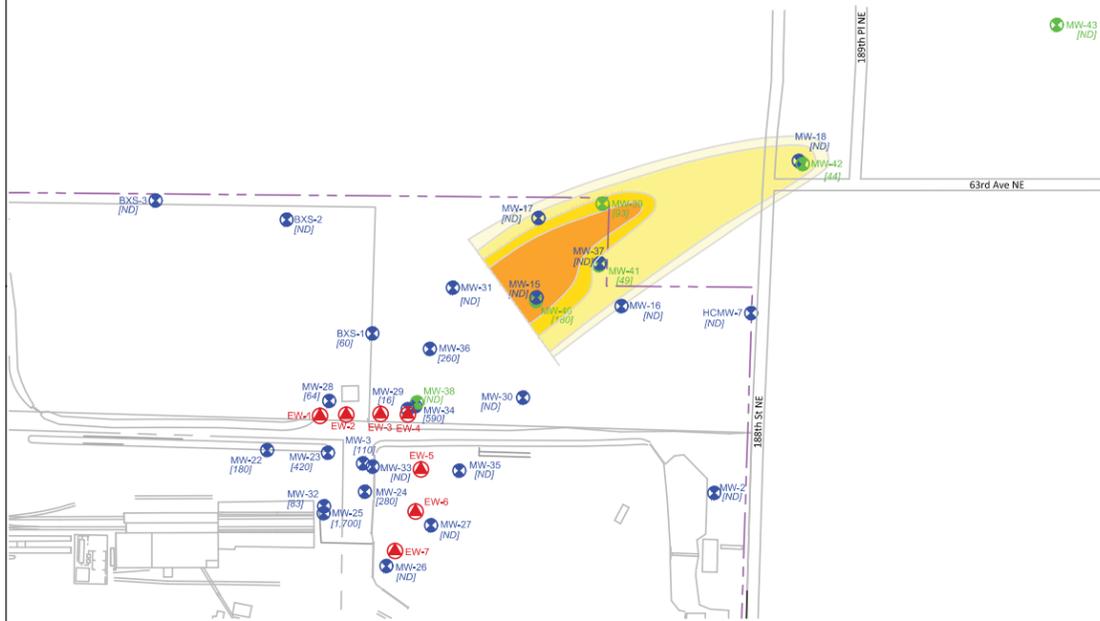
MAP NOTES:  
 Date: March 20, 2018  
 Data Sources: AMEC, Figures 35 + 36,  
 August 2014



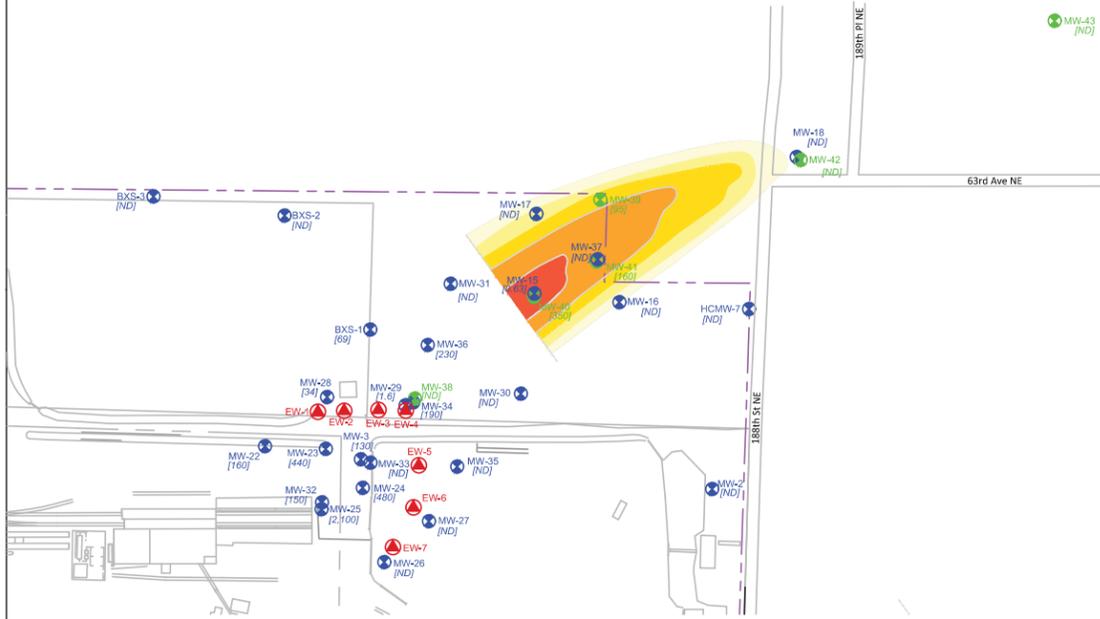
NOVEMBER 2012



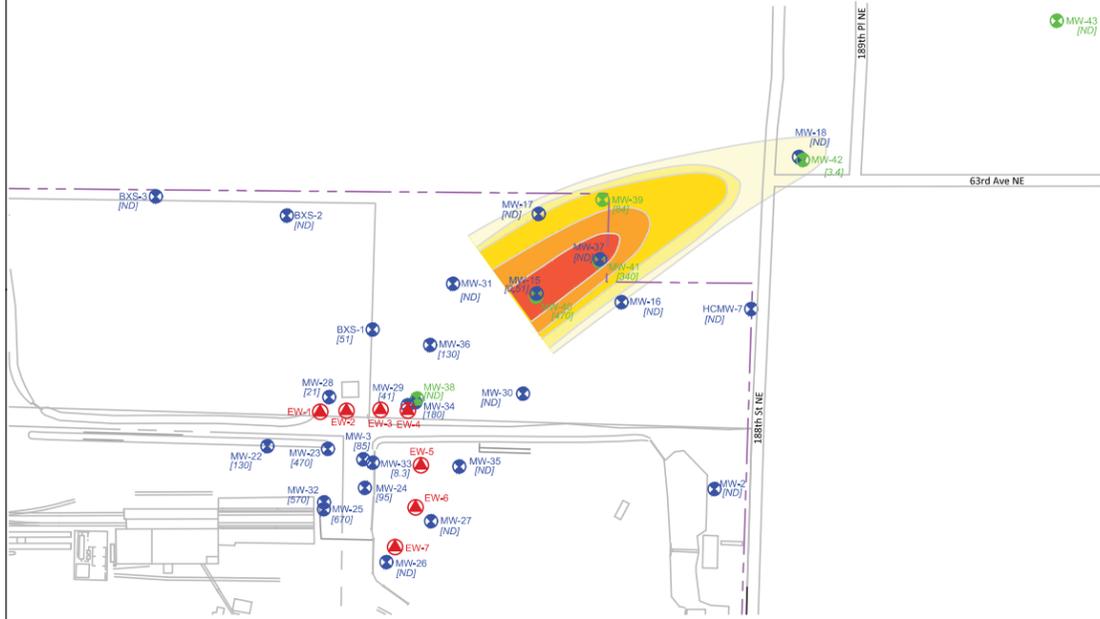
FEBRUARY 2013



JUNE 2013



AUGUST 2013

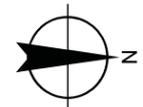
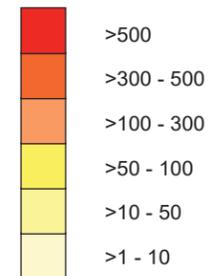


**FIGURE 20**  
**Pentachlorophenol Isopleth Map,**  
**Deep Zone: Fourth Quarter 2012 -**  
**Third Quarter 2013**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

**LEGEND**

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- Groundwater Extraction Well
- Site Boundary
- ND Not-Detected
- NA Not Analyzed

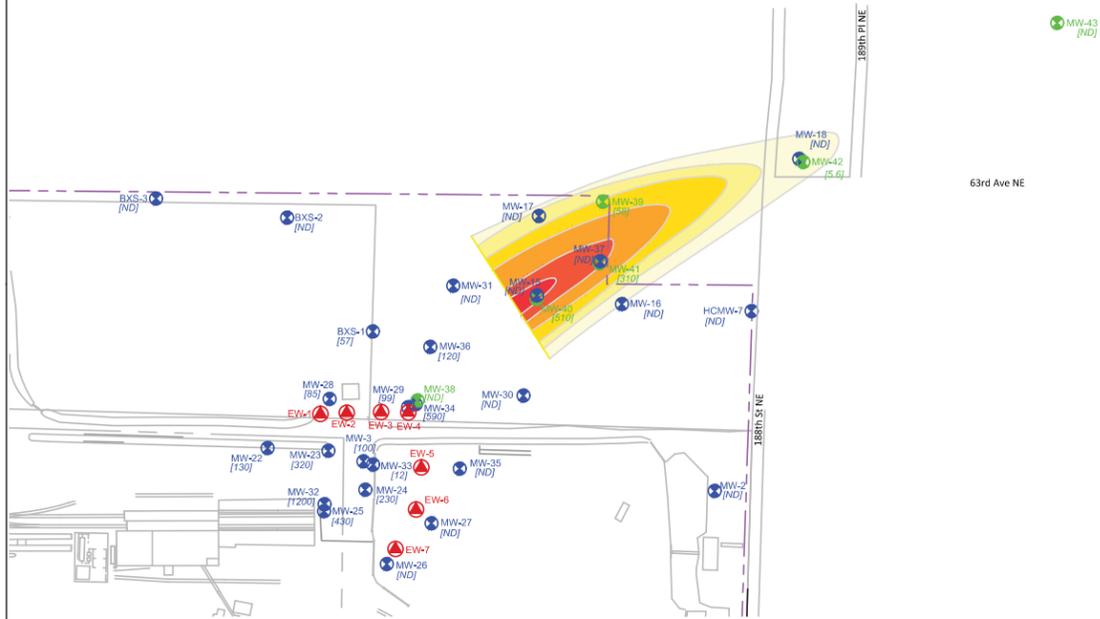
Pentachlorophenol Concentration (ug/L)



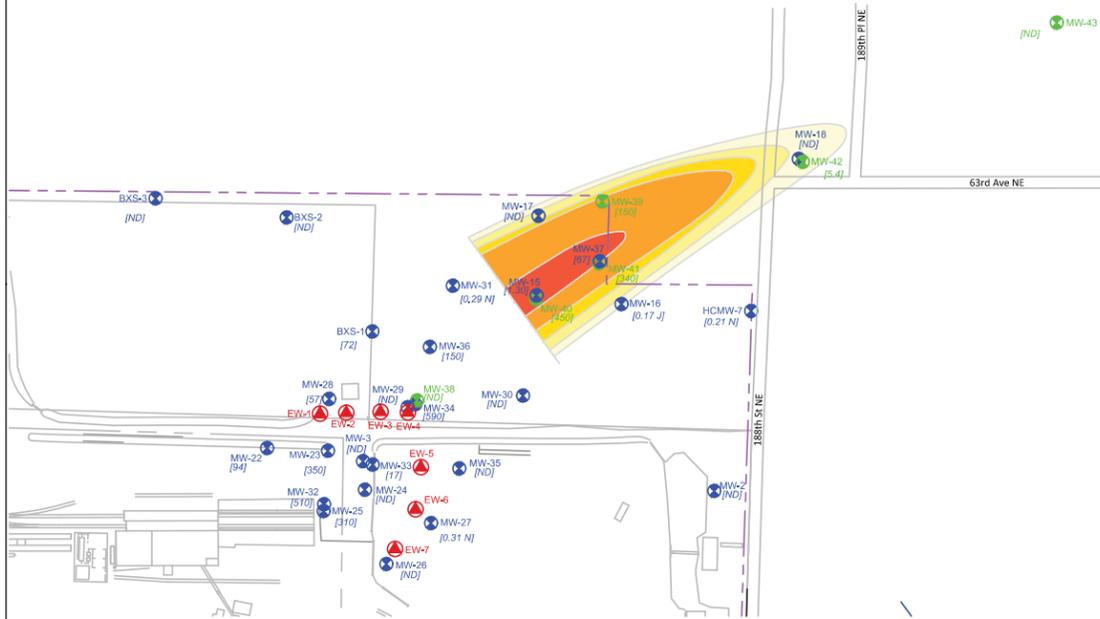
MAP NOTES:  
 Date: March 20, 2018  
 Data Sources: AMEC, Figures 35 + 36,  
 August 2014



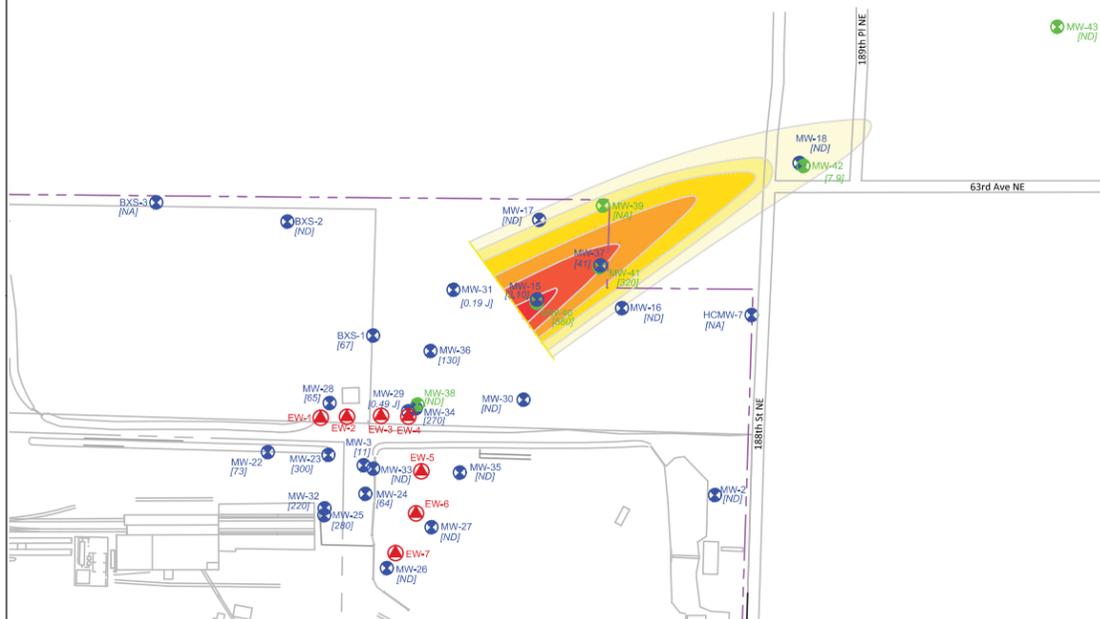
DECEMBER 2013



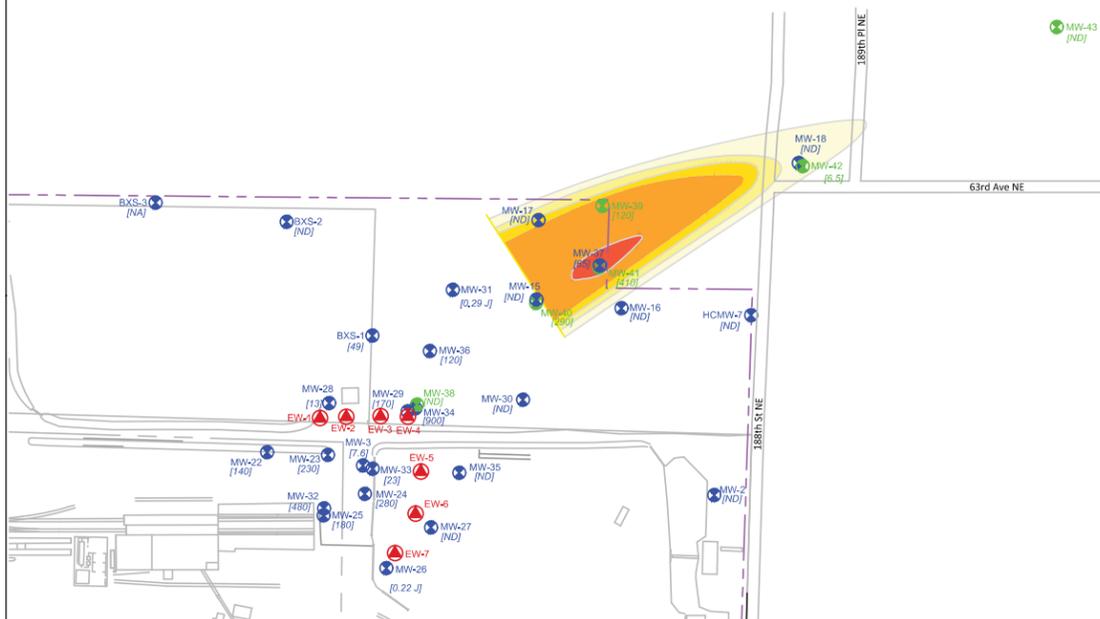
MARCH 2014



JUNE 2014



SEPTEMBER 2014

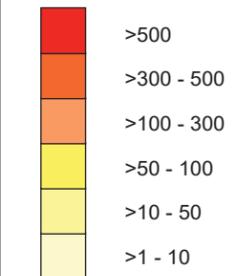


**FIGURE 21**  
**Pentachlorophenol Isopleth Map,**  
**Deep Zone: Fourth Quarter 2013 -**  
**Third Quarter 2014**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

**LEGEND**

- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- Groundwater Extraction Well
- Site Boundary
- ND Not-Detected
- NA Not Analyzed

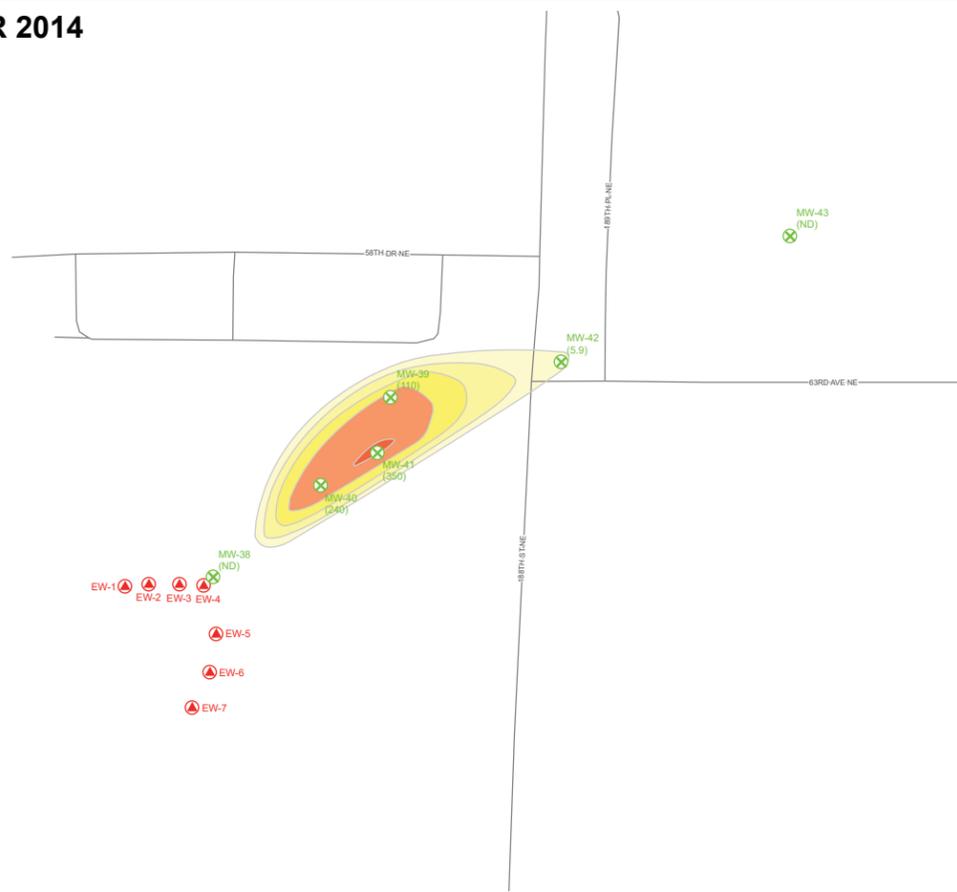
Pentachlorophenol Concentration (ug/L)



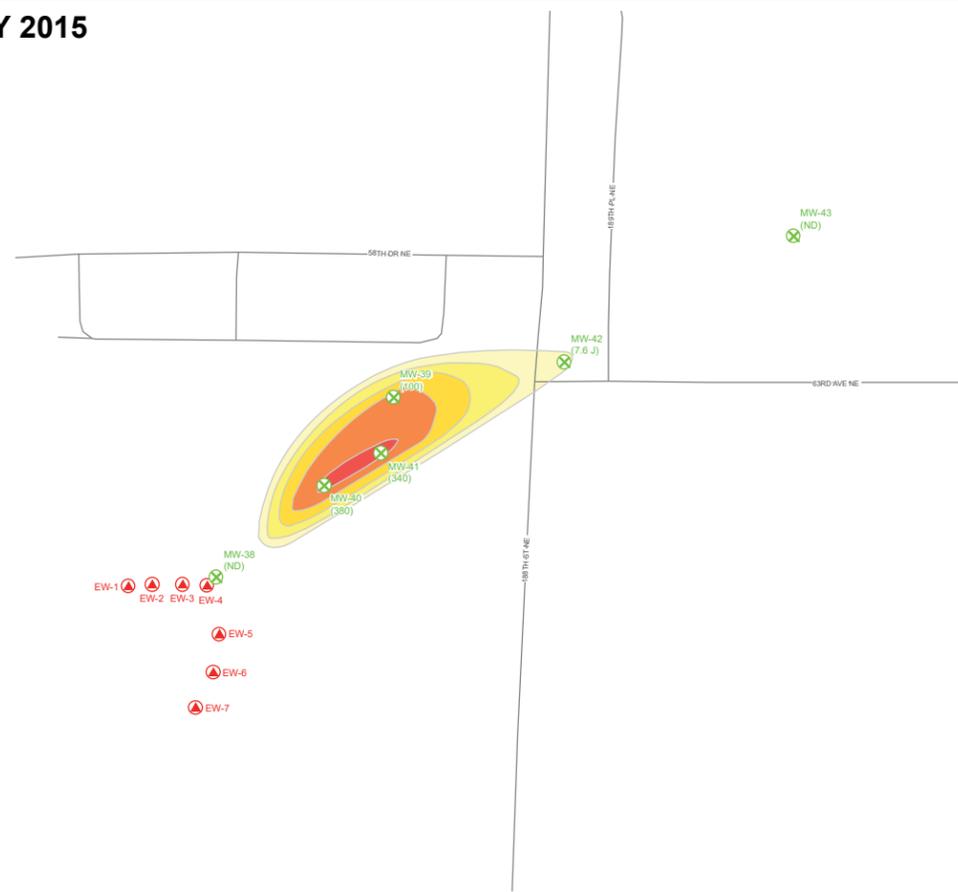
MAP NOTES:  
 Date: March 20, 2018  
 Data Sources: AMEC, Figures 35 + 36,  
 August 2014



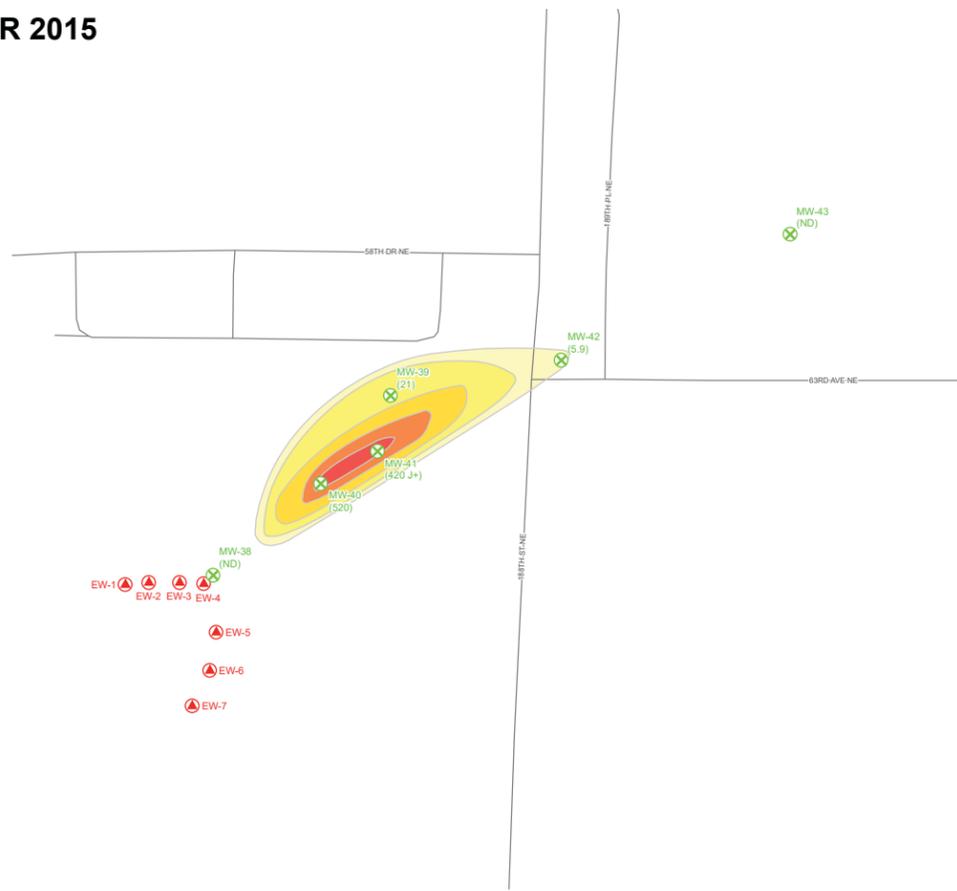
NOVEMBER 2014



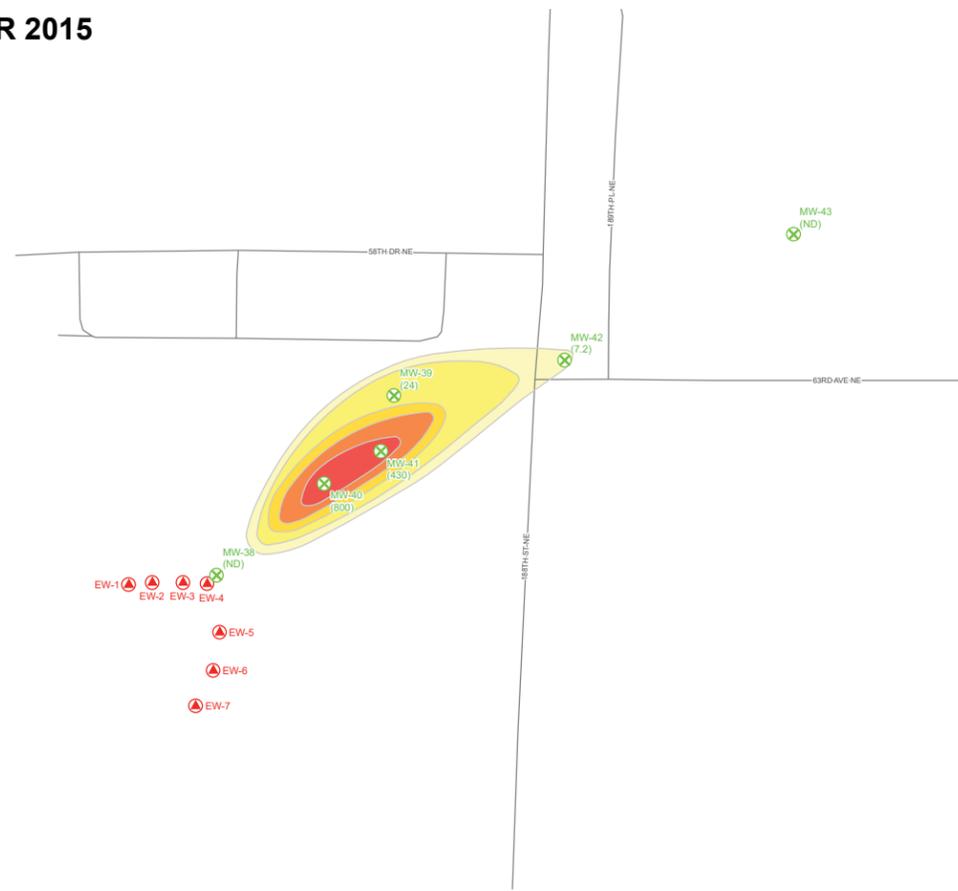
FEBRUARY 2015



SEPTEMBER 2015



DECEMBER 2015

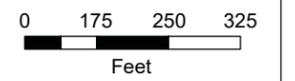
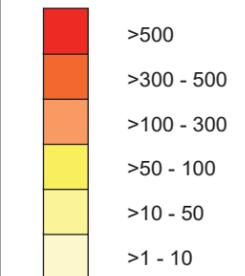


**FIGURE 22**  
**Pentachlorophenol Isopleth Map,**  
**Deep Zone: Fourth Quarter 2014 -**  
**Fourth Quarter 2015**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

**LEGEND**

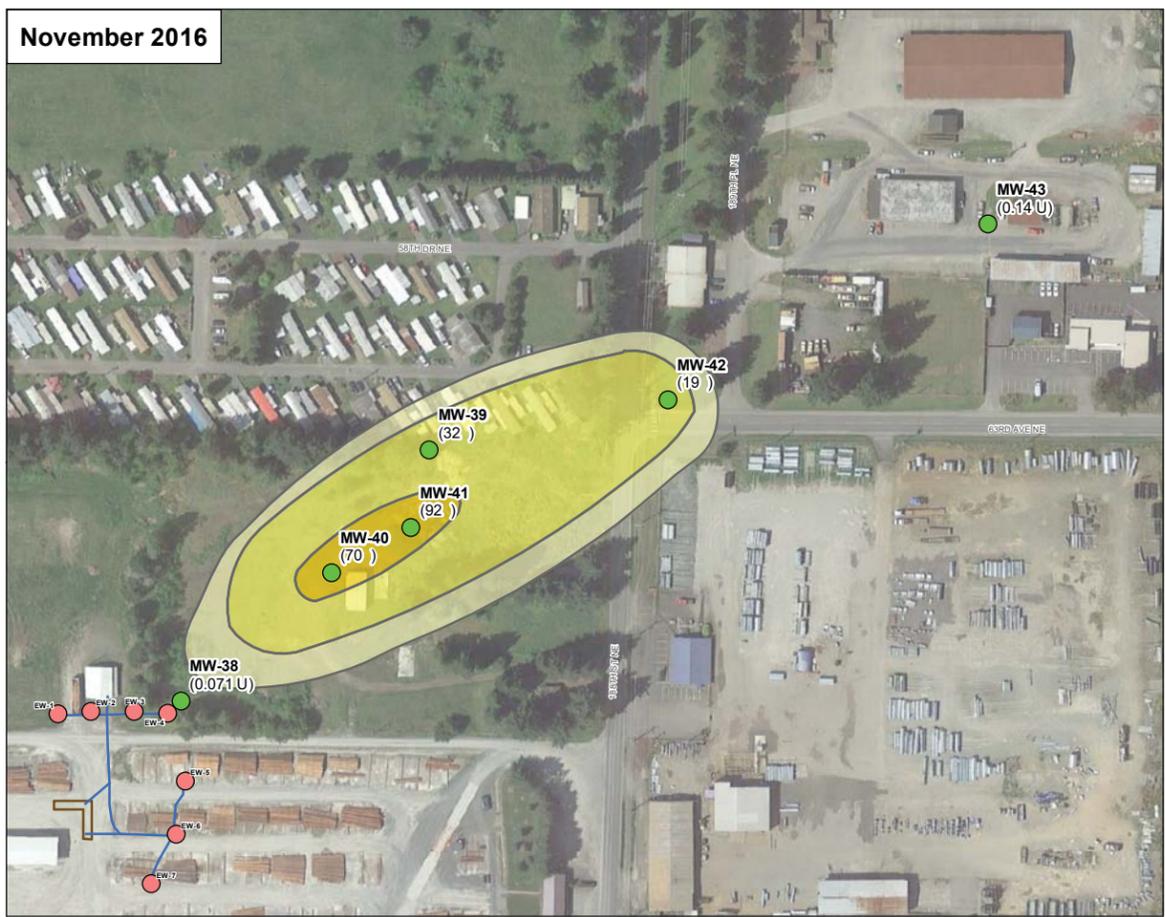
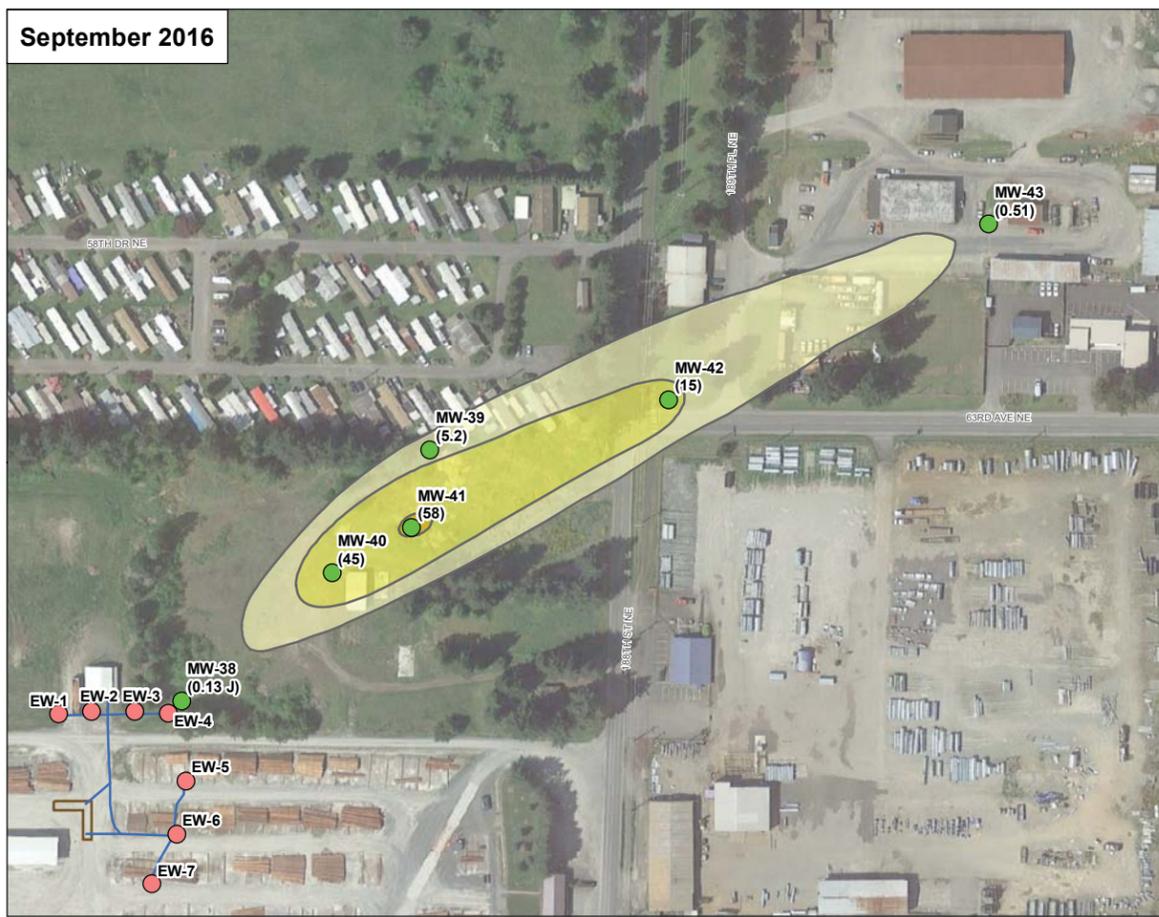
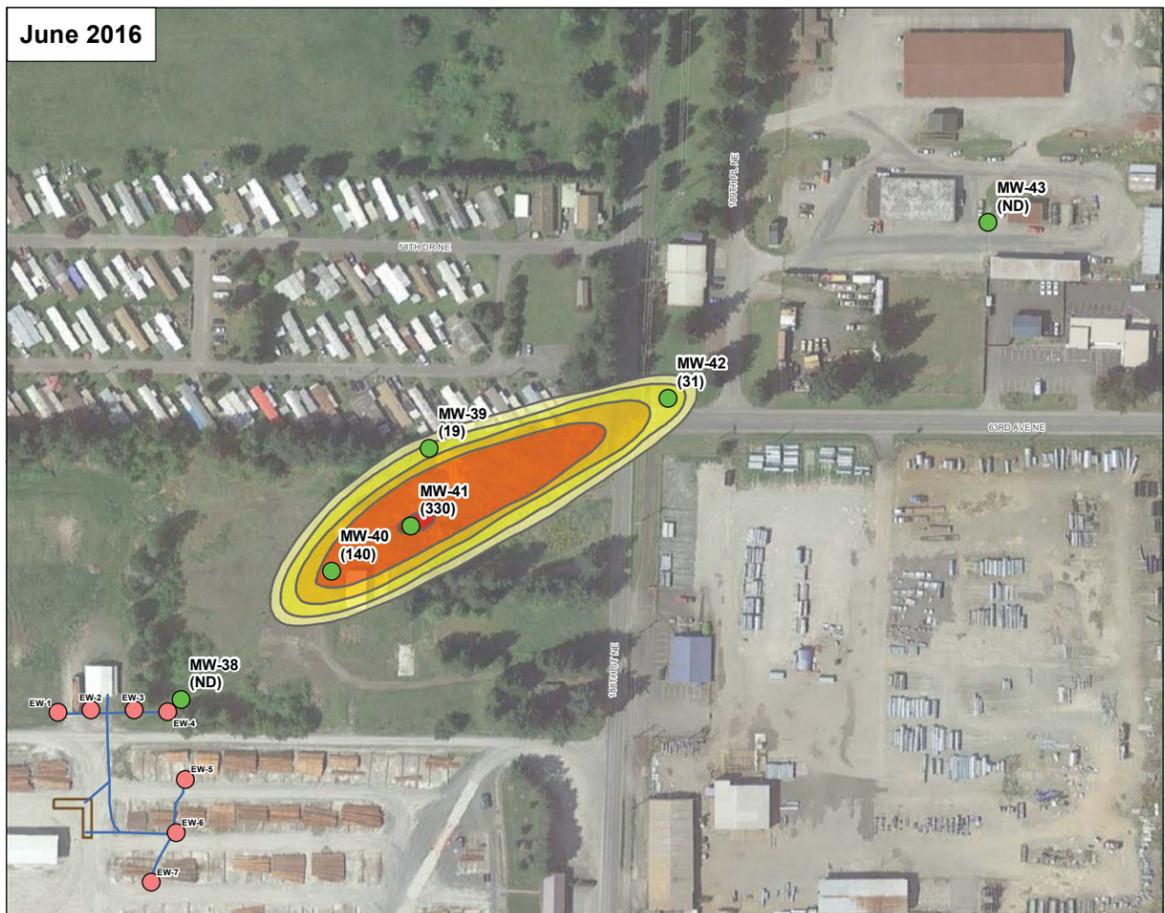
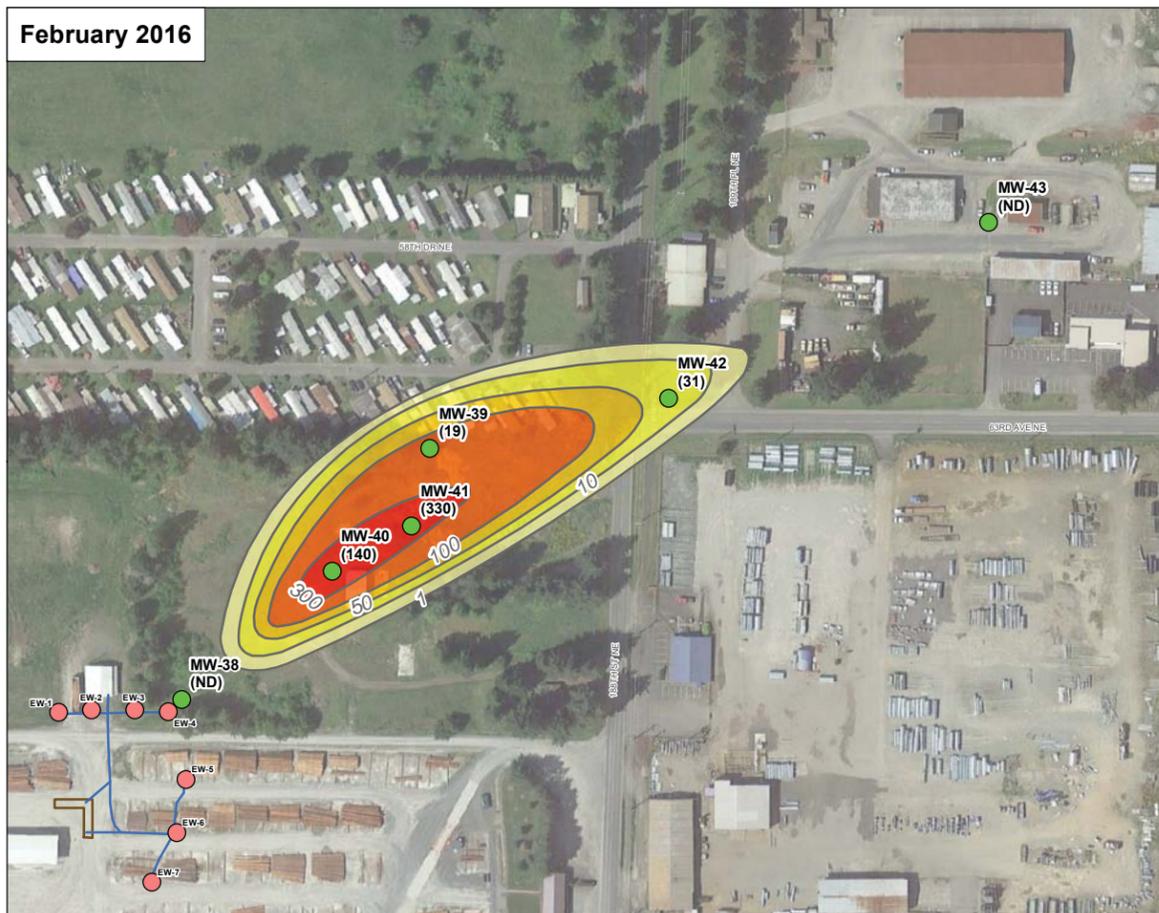
- Monitoring Well and Pentachlorophenol (PCP) Concentration (ug/L)
- Deep Monitoring Well and PCP Concentration (ug/L)
- Groundwater Extraction Well
- Site Boundary
- ND Not-Detected
- NA Not Analyzed

Pentachlorophenol Concentration (ug/L)



MAP NOTES:  
 Date: March 20, 2018  
 Data Sources: AMEC, Figures 35 + 36,  
 August 2014





**FIGURE 23**  
**Pentachlorophenol Isopleth**  
**Map, Deep Zone: 2016**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

**LEGEND**

- Deep Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

**PCP Concentrations (µg/L)**

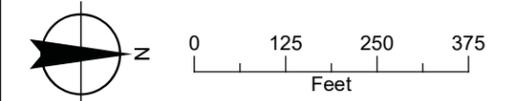
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- ▭ Infiltration Trench
- ~ Groundwater Elevation Contours (dashed where inferred)

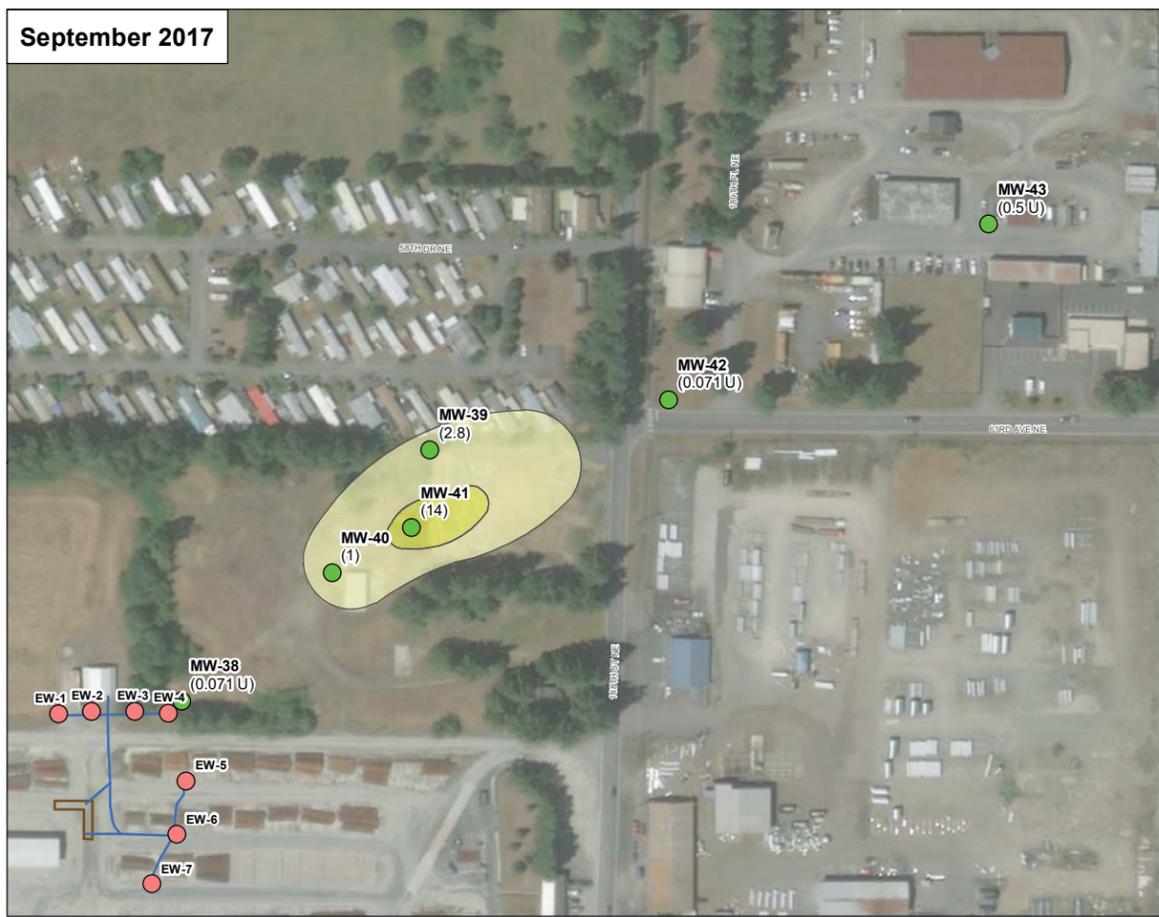
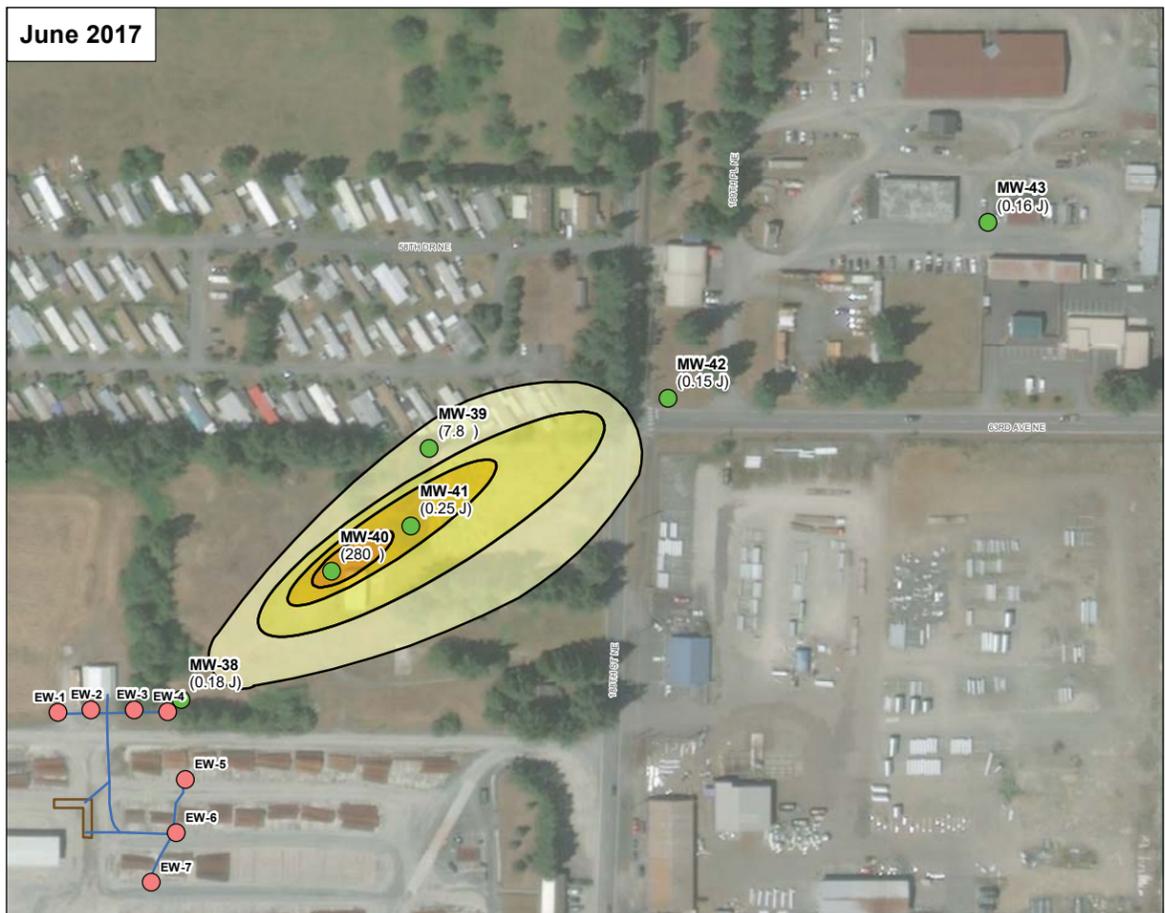
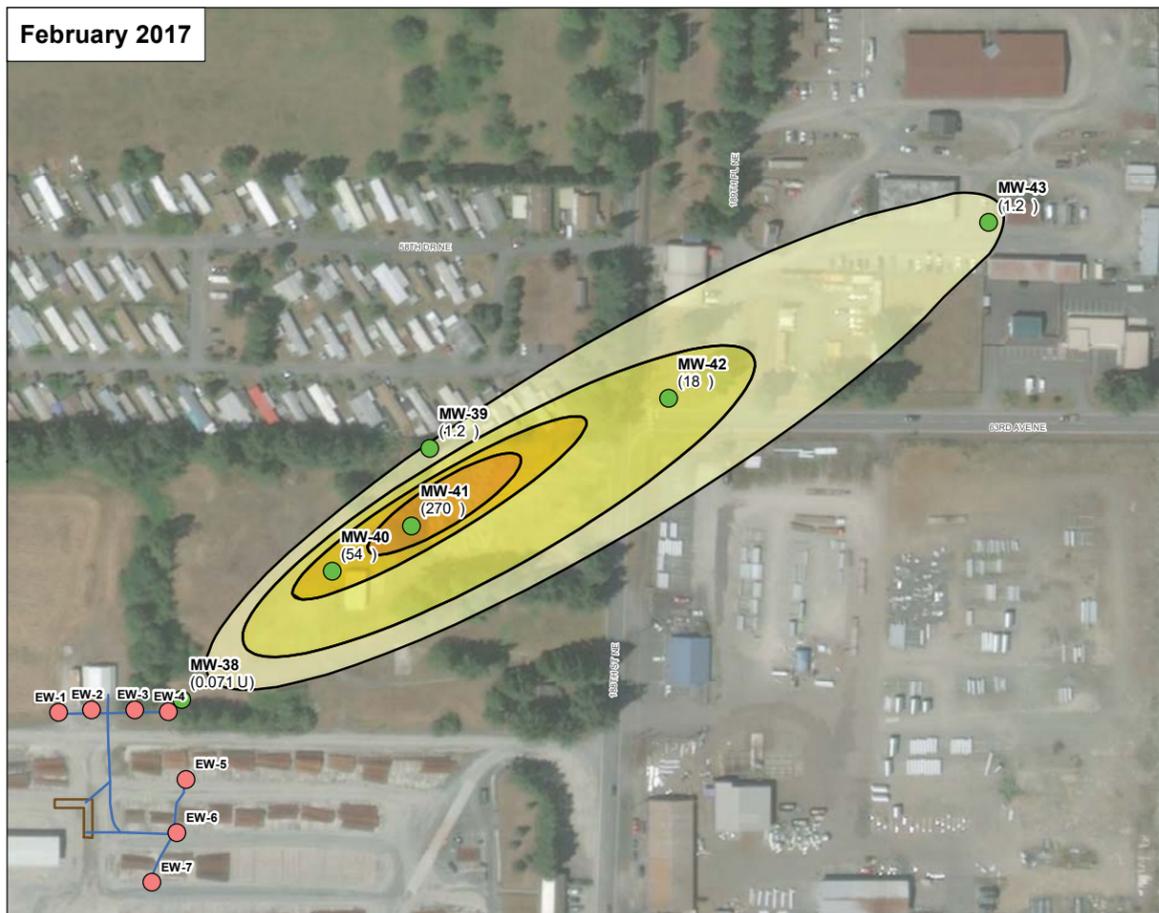
**NOTES:**

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed  
 ND Not Detected



Date: March 20, 2018  
 Data Sources: AMEC, ESRI, Air photo taken on May 2, 2015 by Google Earth





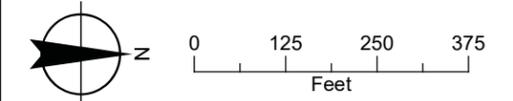
**FIGURE 24**  
**Pentachlorophenol Isopleth Map, Deep Zone: 2017**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**LEGEND**

- Deep Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)
- PCP Concentrations (µg/L)**
- >500
  - 300-500
  - 100-300
  - 50-100
  - 10-50
  - 1-10
- All Other Features**
- Extraction Well
  - Infiltration Gallery Piping
  - Infiltration Trench
  - Groundwater Elevation Contours (dashed where inferred)

**NOTES:**

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed  
 ND Not Detected



Date: March 20, 2018  
 Data Sources: AMEC, ESRI, Air photo taken on May 2, 2015 by Google Earth



**FIGURE 25**  
**Pentachlorophenol Isopleth**  
**Map, Deep Zone: First Quarter 2018**

Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington



**LEGEND**

● Deep Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L) March 2018

**PCP Concentrations (µg/L)**

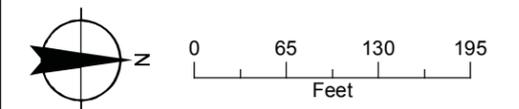
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- ▭ Infiltration Trench

**NOTES:**

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed

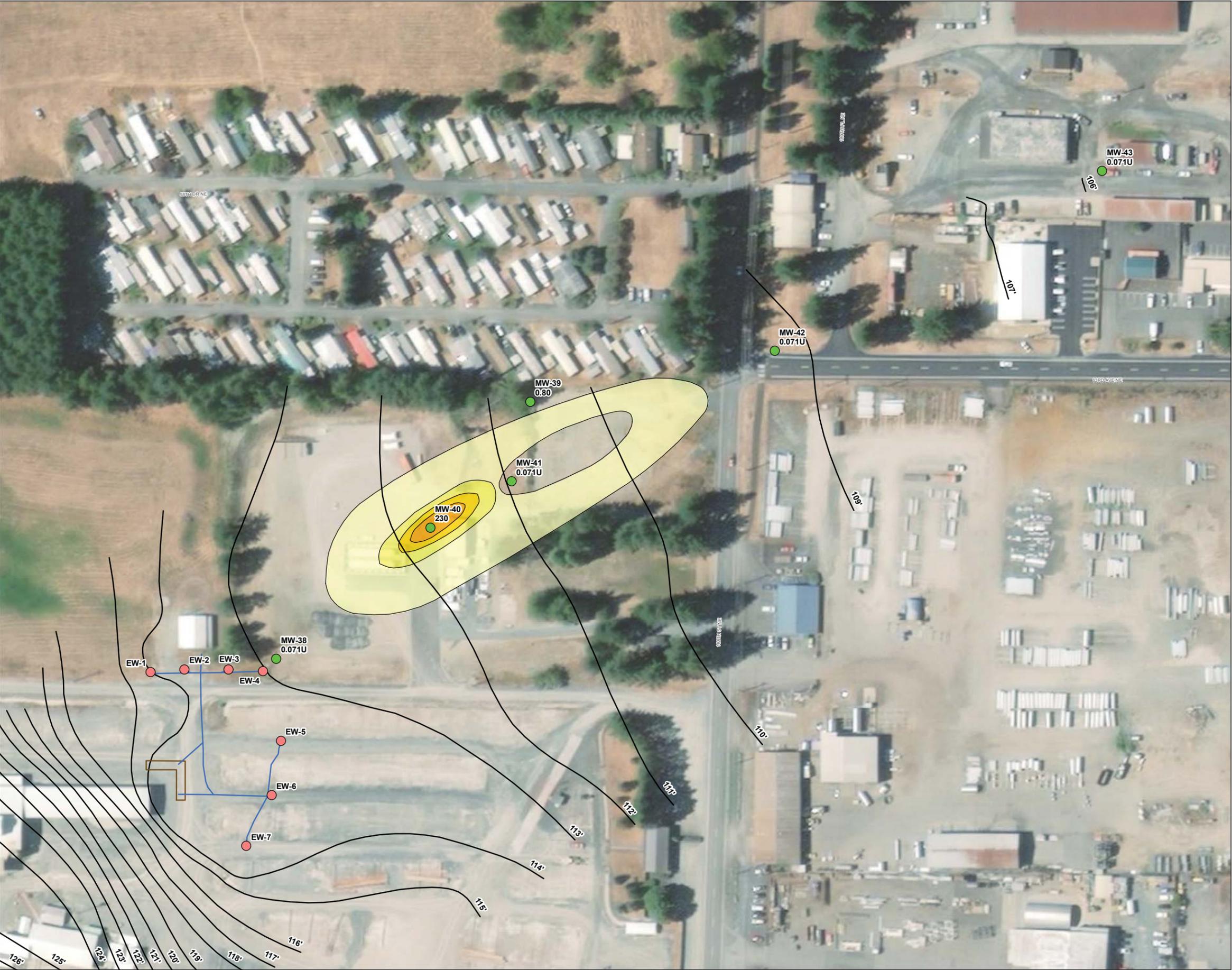


Date: September 19, 2018  
 Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP



**FIGURE 26**  
**Pentachlorophenol Isopleth**  
**Map, Deep Zone: Second Quarter 2018**

Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington



**LEGEND**

● Deep Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L) June 2018

**PCP Concentrations (µg/L)**

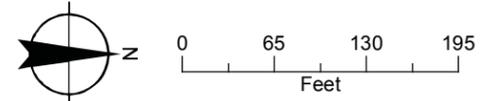
- >500
- 300-500
- 100-300
- 50-100
- 10-50
- 1-10

**All Other Features**

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench

**NOTES:**

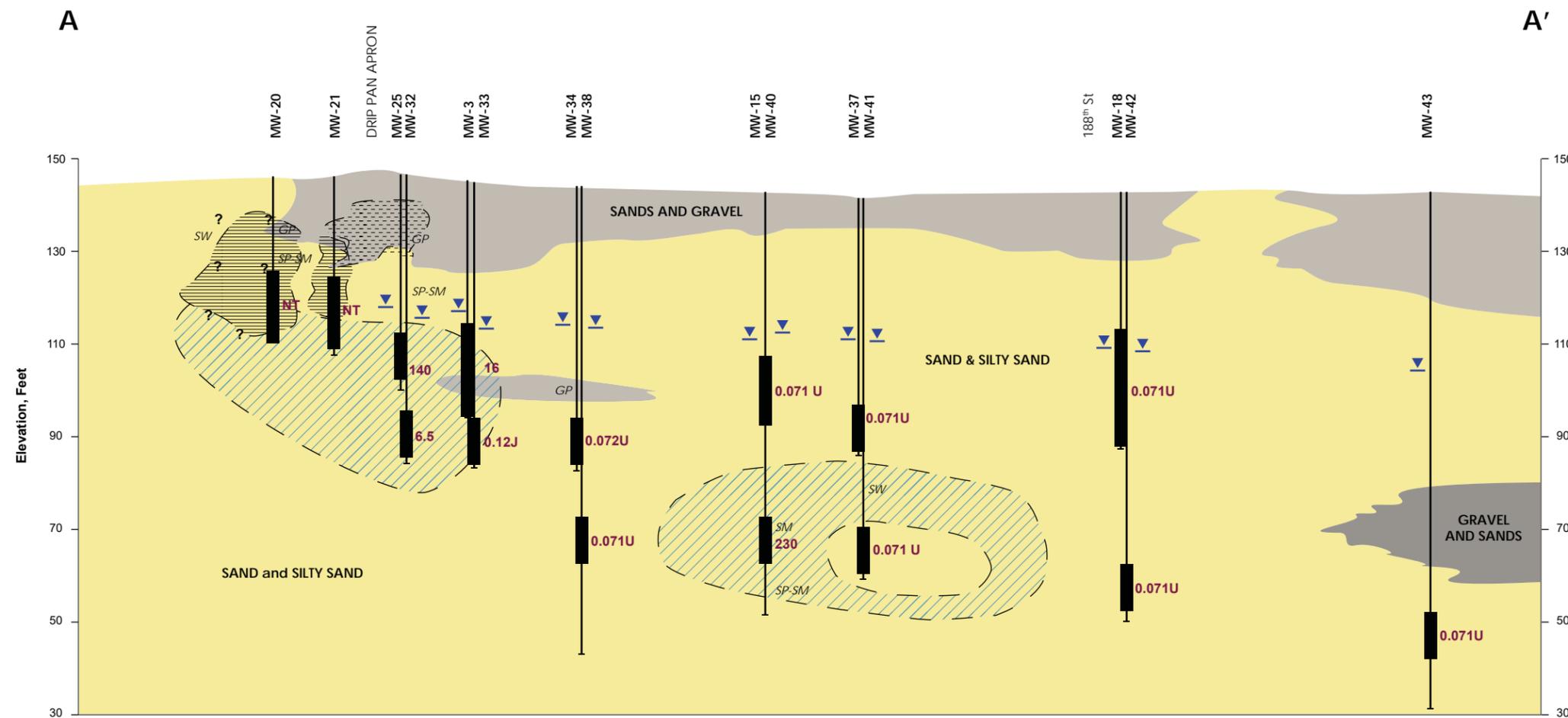
1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:  
 NA Not Analyzed  
 U Not Detected



Date: September 27, 2018  
 Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP



**FIGURE 27**  
**Cross Section A-A'**  
**Pentachlorophenol in Groundwater**  
**Second Quarter 2018**  
 Former J.H. Baxter  
 Wood Treating Facility  
 Arlington, Washington

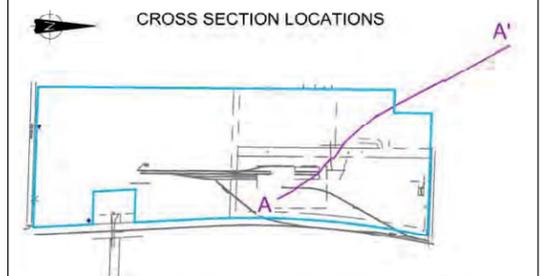


**LEGEND**

- 340 Pentachlorophenol (PCP) Concentration in ug/L
- Approximate Water Level on June 16, 2018
- Monitoring Well Cluster, Identifier, and Screen Interval
- Sands and Gravel
- Gravel and Sands
- Sand and Silty Sand
- Residual Light Non-Aqueous Phase Liquid (LNAPL)
- Wood Debris
- Approximate Extent of PCP in Groundwater (>1)

**NOTES:**

- GP: Poorly Graded Gravel
- ND: Not Detected
- NT: Not Tested
- SM: Silty Sand
- SP-SM: Poorly Graded Sand with Silt
- SW: Well Graded Sand



**MAP NOTES:**

Date: September 21, 2018  
 Data Sources: Amec, Figure 39,  
 December 2014



**FIGURE 28**

**Total PAHs in Groundwater:  
Second Quarter 2017 to  
Second Quarter 2018**

Former J.H. Baxter  
Wood Treating Facility  
Arlington, Washington

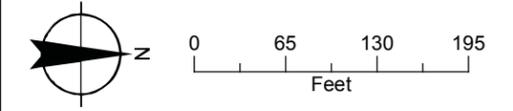


**LEGEND**

- Shallow Monitoring Well
- Intermediate Monitoring Well

**NOTES:**

1. Results in µg/L (microgram per liter)
2. Abbreviations:  
 ND Not-Detected  
 NA Not Analyzed  
 J Estimated Value



Date: September 20, 2018  
 Data Sources: AMEC, ESRI, Air photo taken on  
 May 2, 2015 by Google Earth



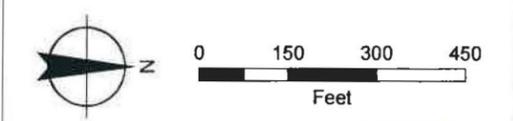
**Appendix A**

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**FIGURE A-1**  
**Cross Section Location Map**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

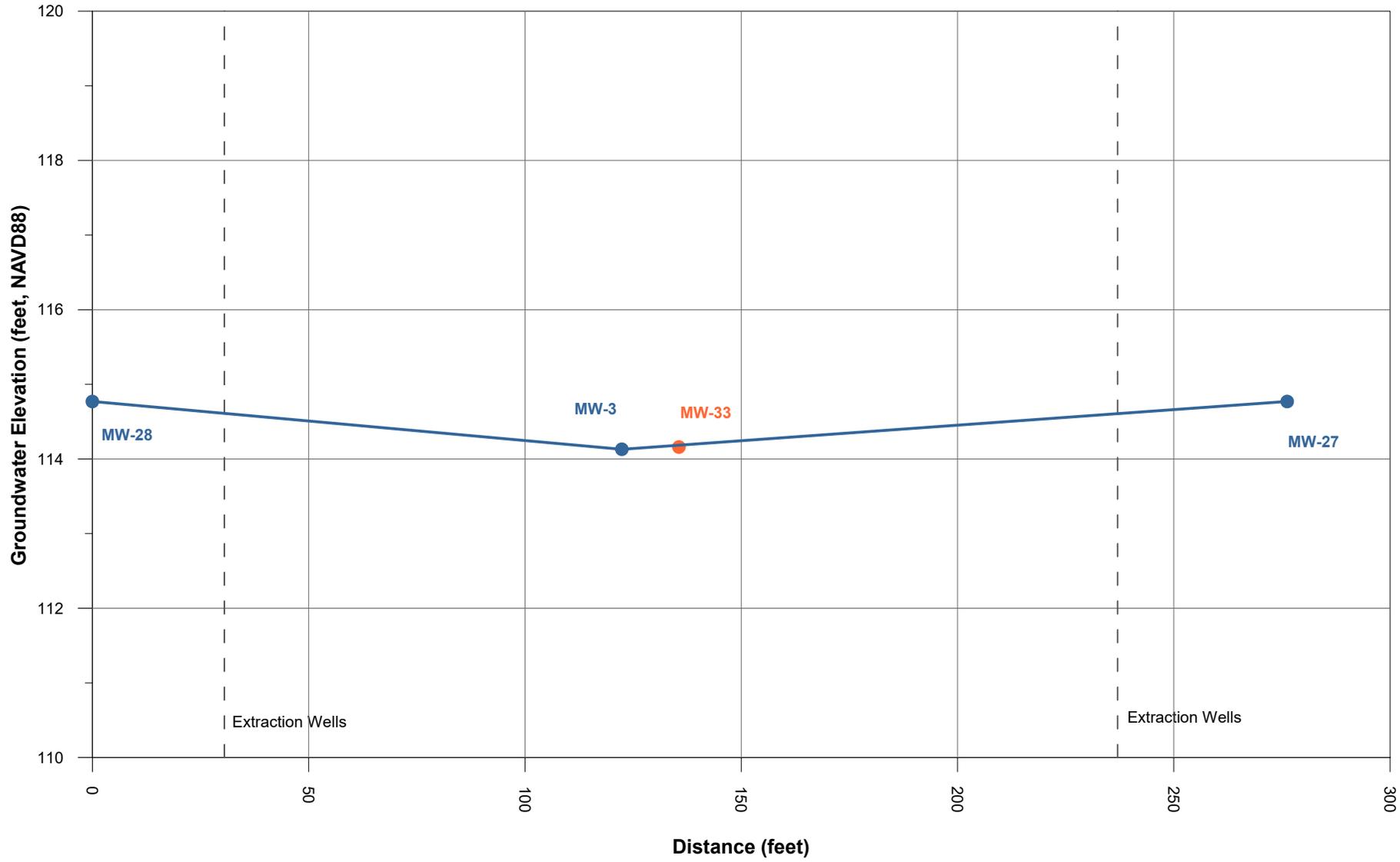
- LEGEND**
- Cross Section Lines
  - Monitoring Well
  - Recovery Well
  - Extraction Well
  - Infiltration Trench



**MAP NOTES:**  
 Date: March 12, 2015  
 Data Sources: AMEC, ESRI, Air photo taken on July 9, 2010 by Microsoft



# Cross Section A-A'

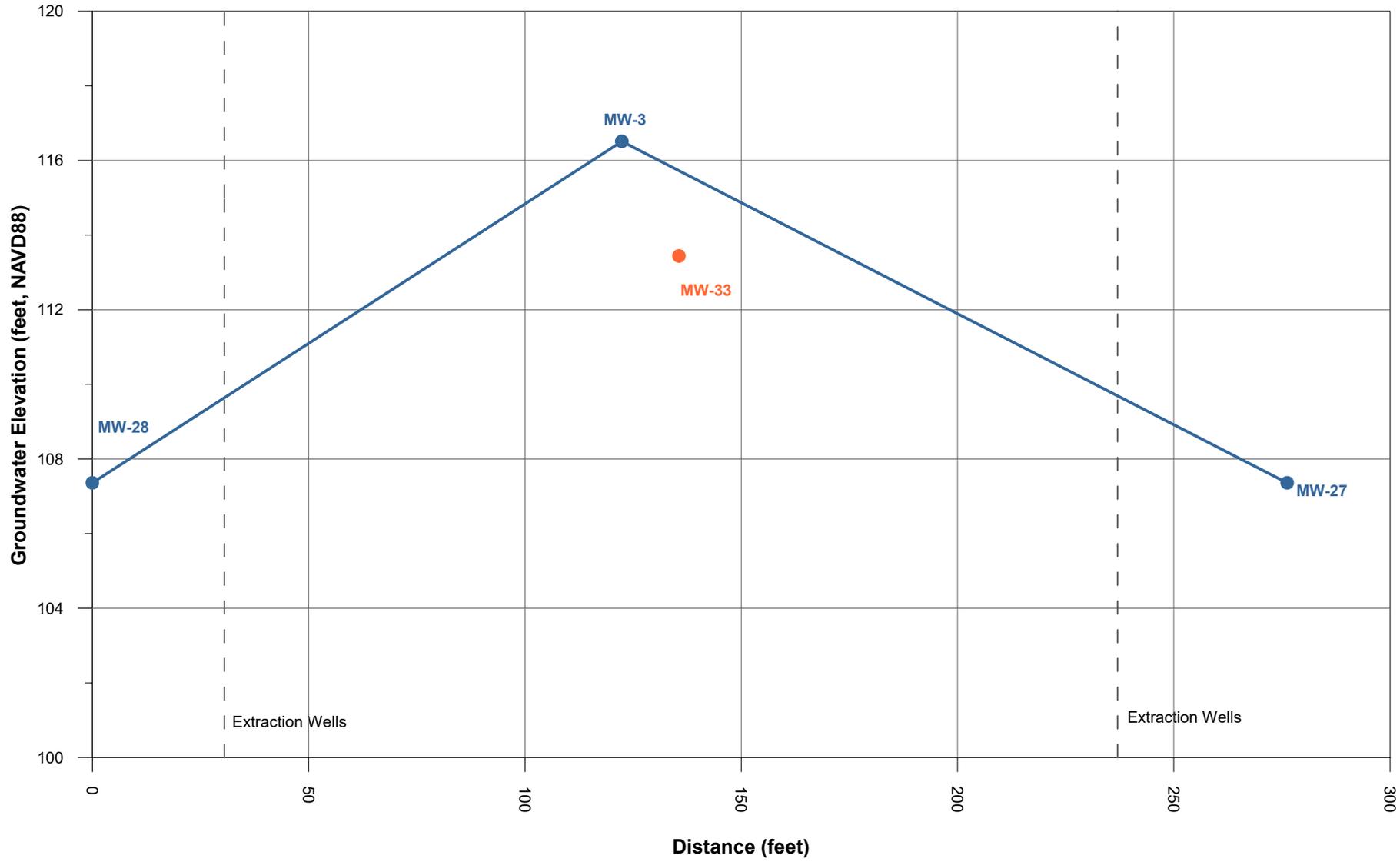


- Legend:**
- Shallow Well Groundwater Elevation
  - Intermediate Well Groundwater Elevation

**FIGURE A-2**  
**First Quarter 2018 Groundwater Elevation**  
**Cross Section A-A'**  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington



### Cross Section A-A'



**Legend:**

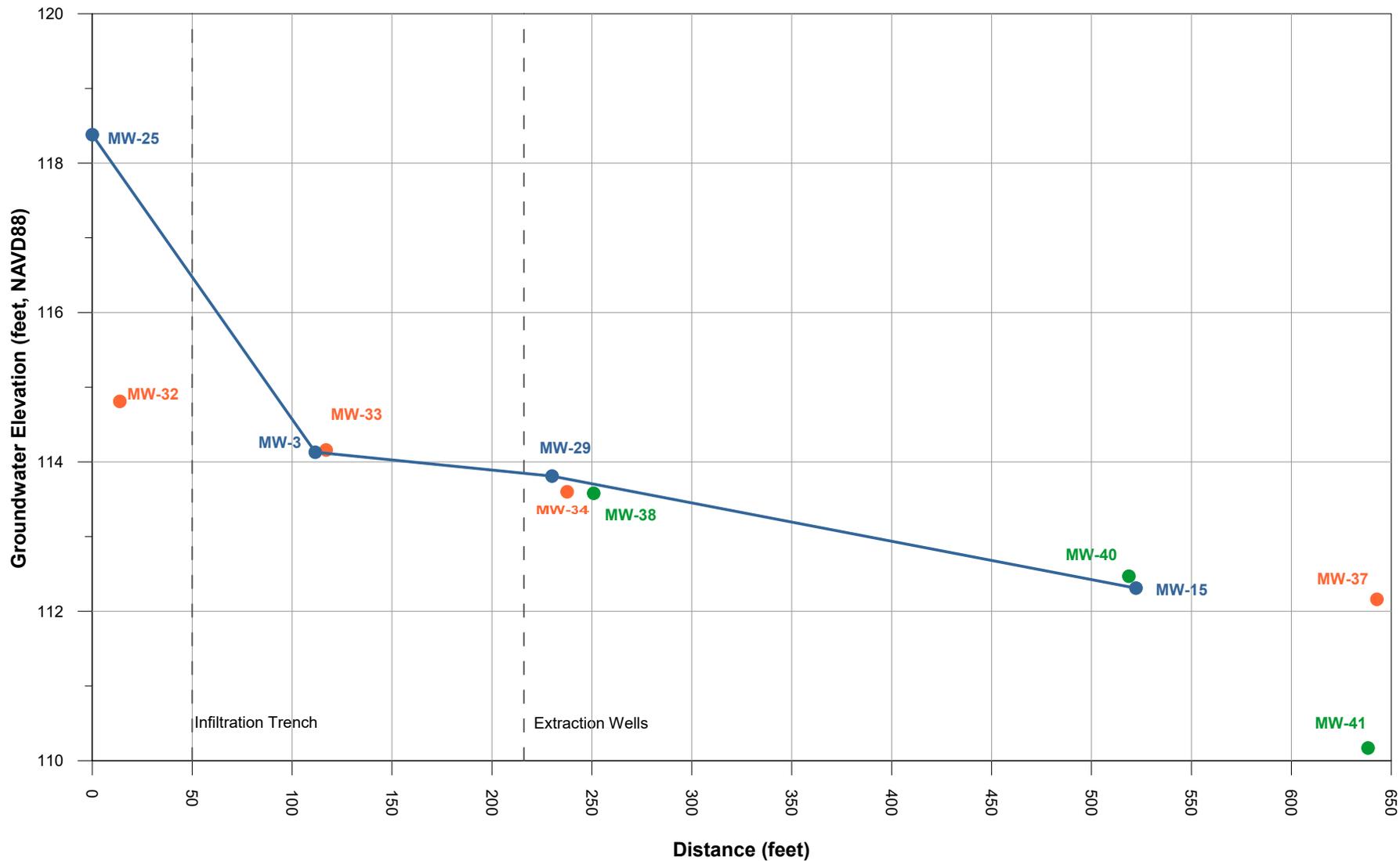
- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation

**Notes:**

**FIGURE A-3**  
**Second Quarter 2018 Groundwater Elevation**  
**Cross Section A-A'**  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington



### Cross Section B-B'



**Legend:**

- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation
- Deep Well Groundwater Elevation

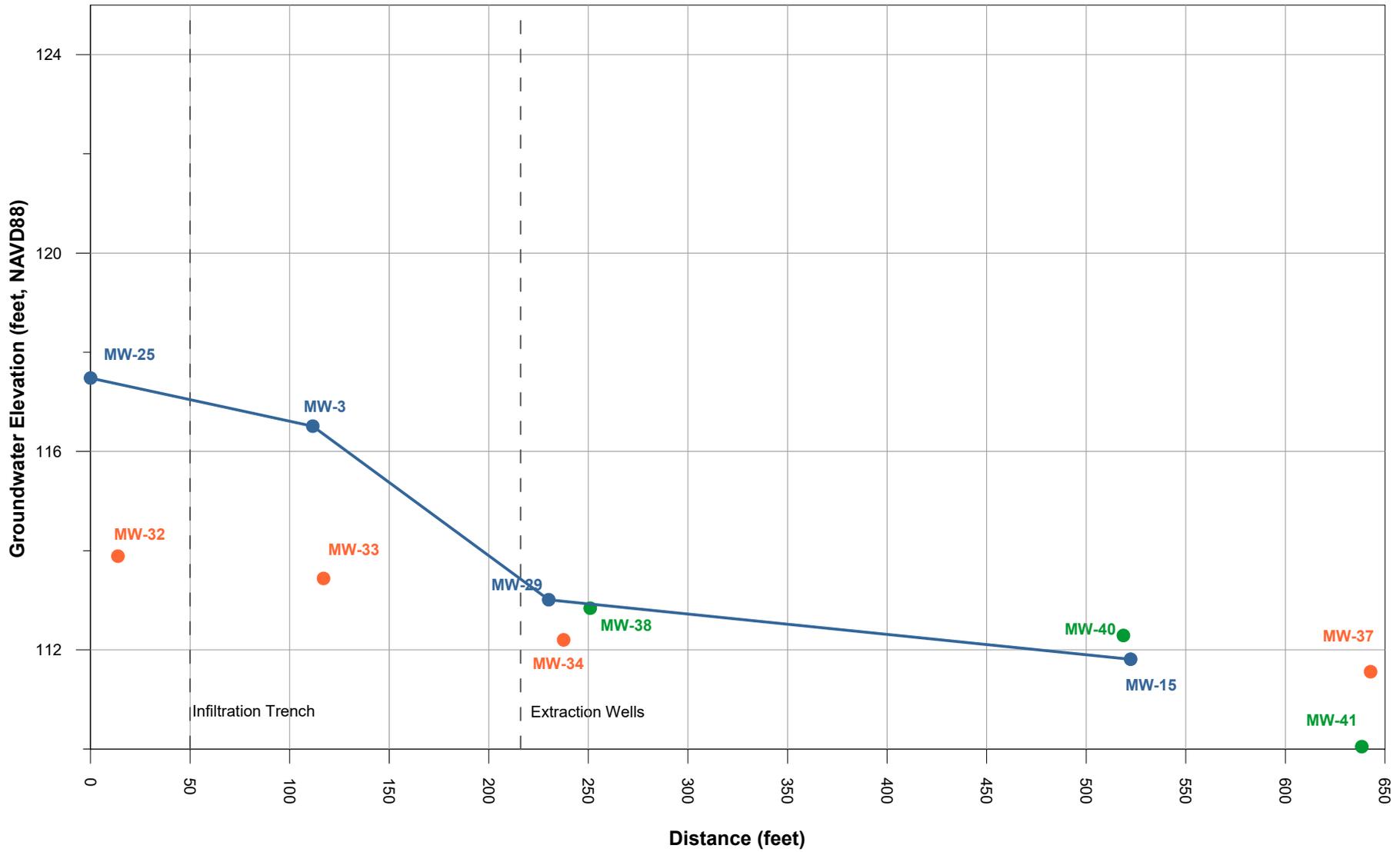
**Notes:**

In vicinity of MW-25 and MW-32, a silt layer is approximately 20' below ground surface; could account for larger differences in groundwater elevation in well pair.

**FIGURE A-4**  
**First Quarter 2018 Groundwater Elevation**  
**Cross Section B-B'**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### Cross Section B-B'



**Legend:**

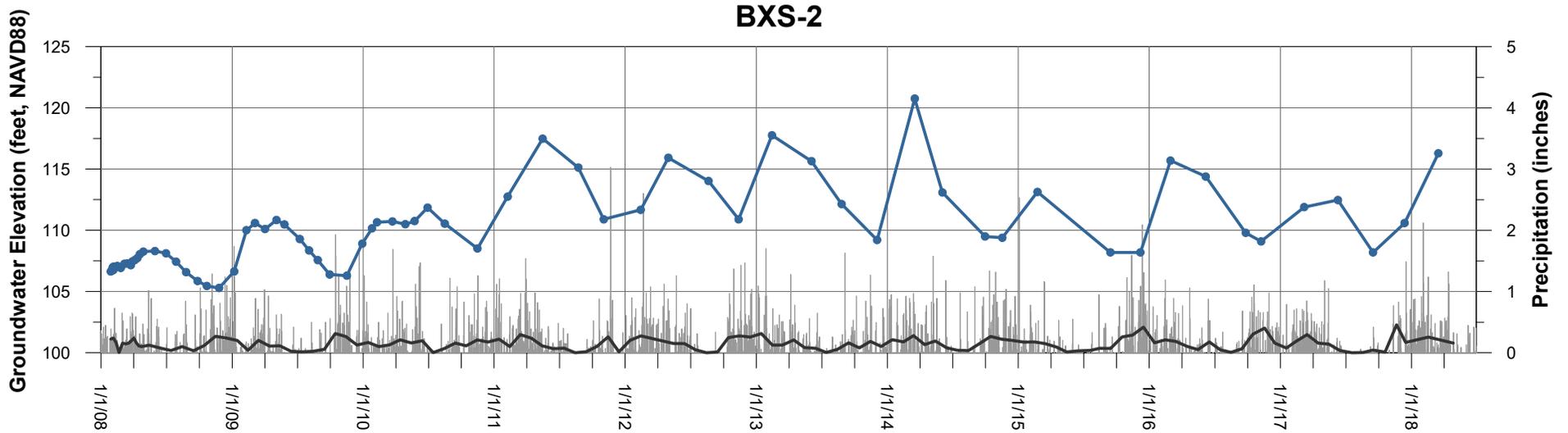
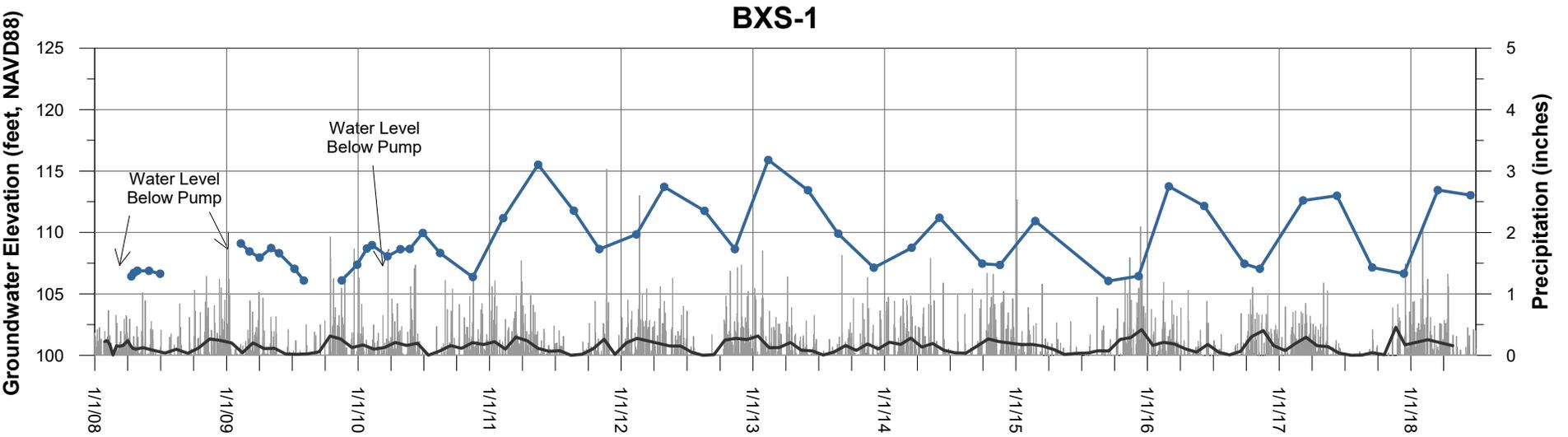
- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation
- Deep Well Groundwater Elevation

**Notes:**

In vicinity of MW-25 and MW-32, a silt layer is approximately 20' below ground surface; could account for larger differences in groundwater elevation in well pair.

**FIGURE A-5**  
**Second Quarter 2018 Groundwater Elevation**  
**Cross Section B-B'**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





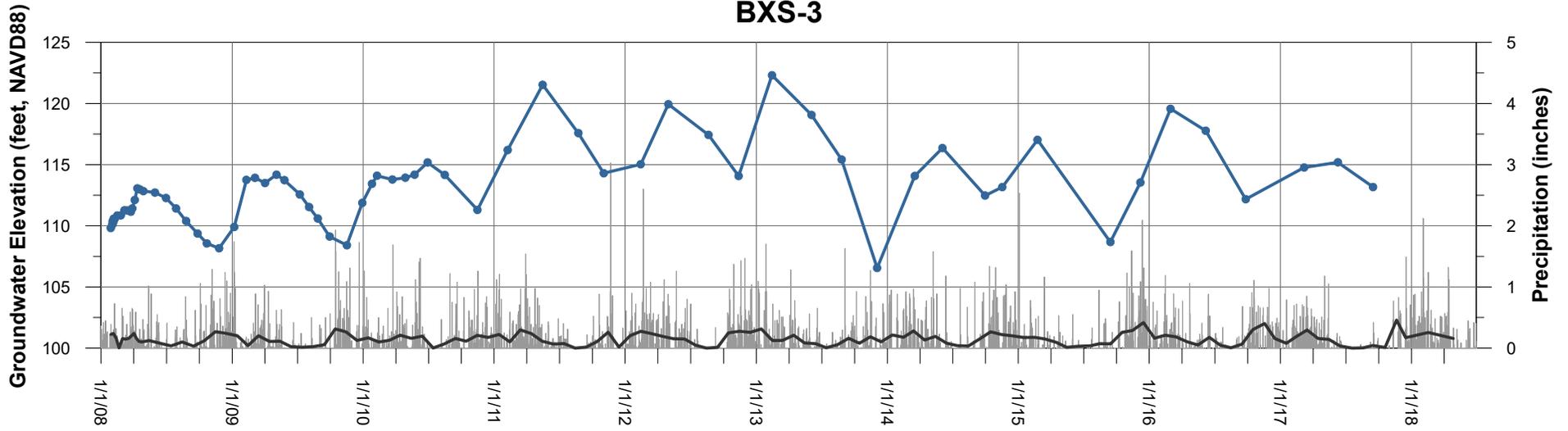
- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

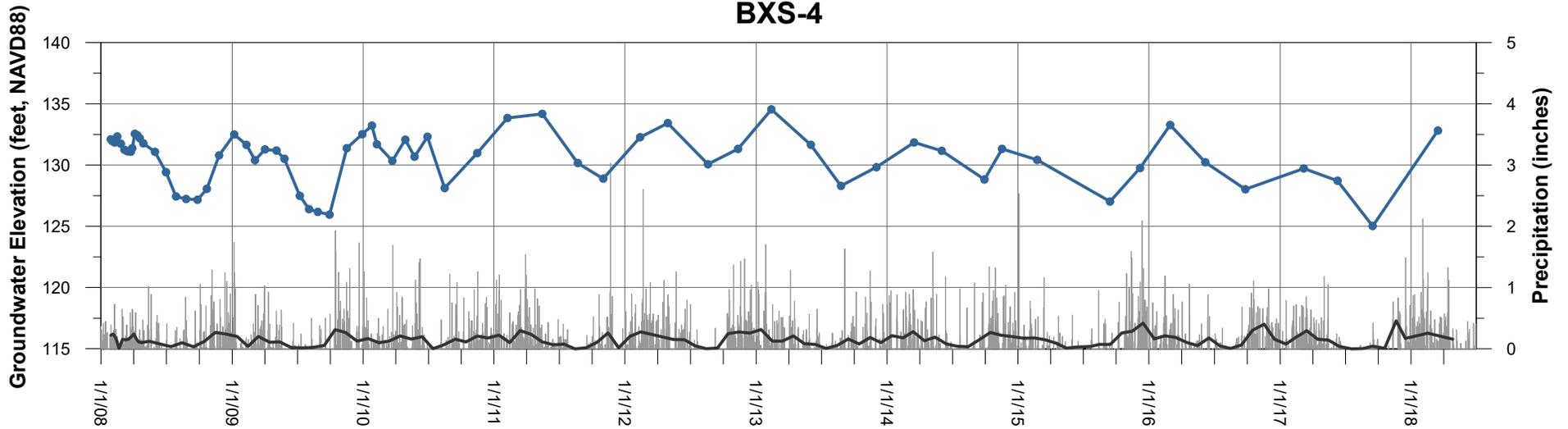
**FIGURE A-6**  
**BXS-1 and BXS-2 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### BXS-3



### BXS-4



**Legend:**

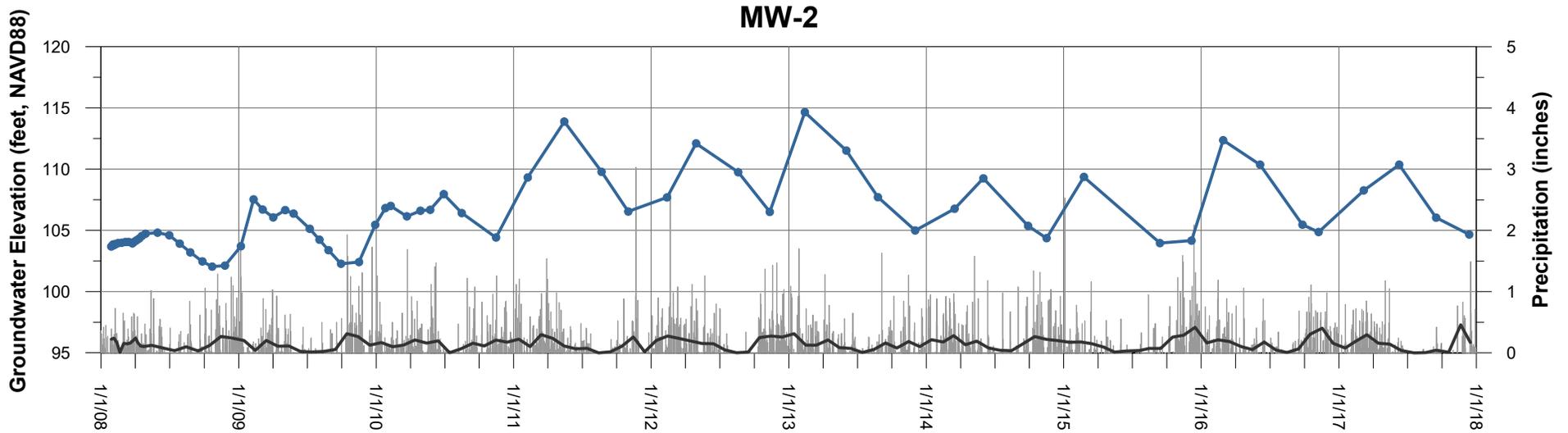
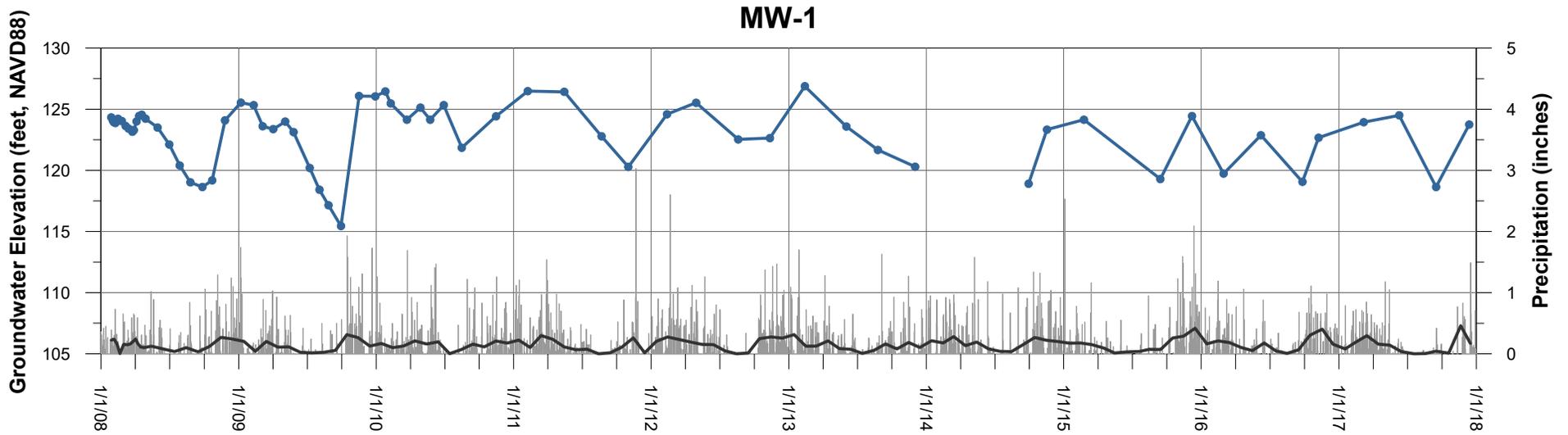
- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

**Notes:**

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 BXS-3 and BXS-4 were not measured during the Fourth Quarter 2016.

**FIGURE A-7**  
**BXS-3 and BXS-4 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



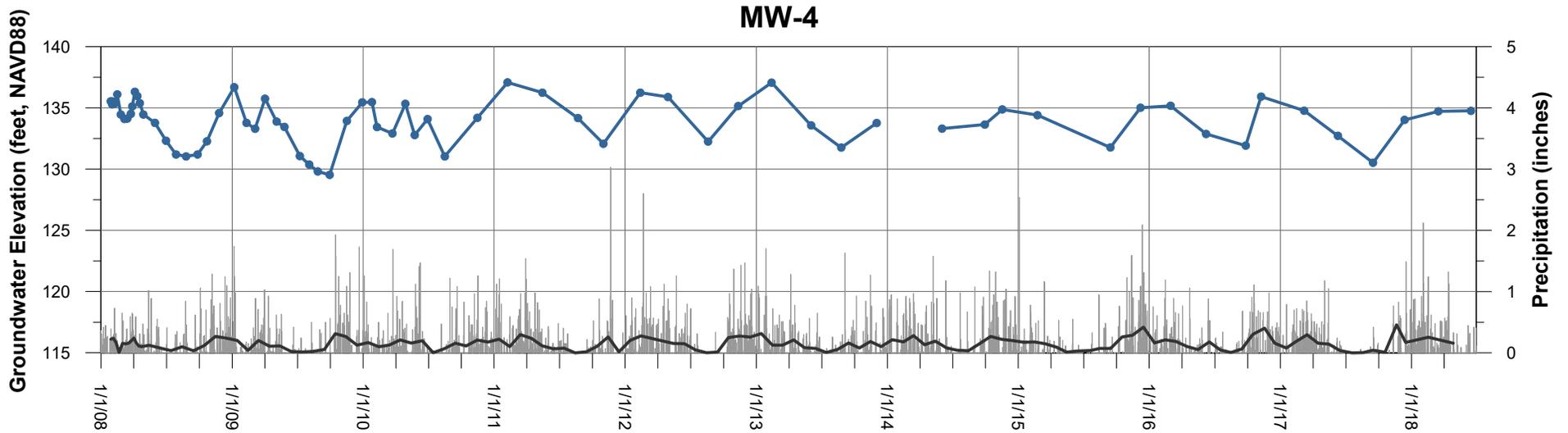
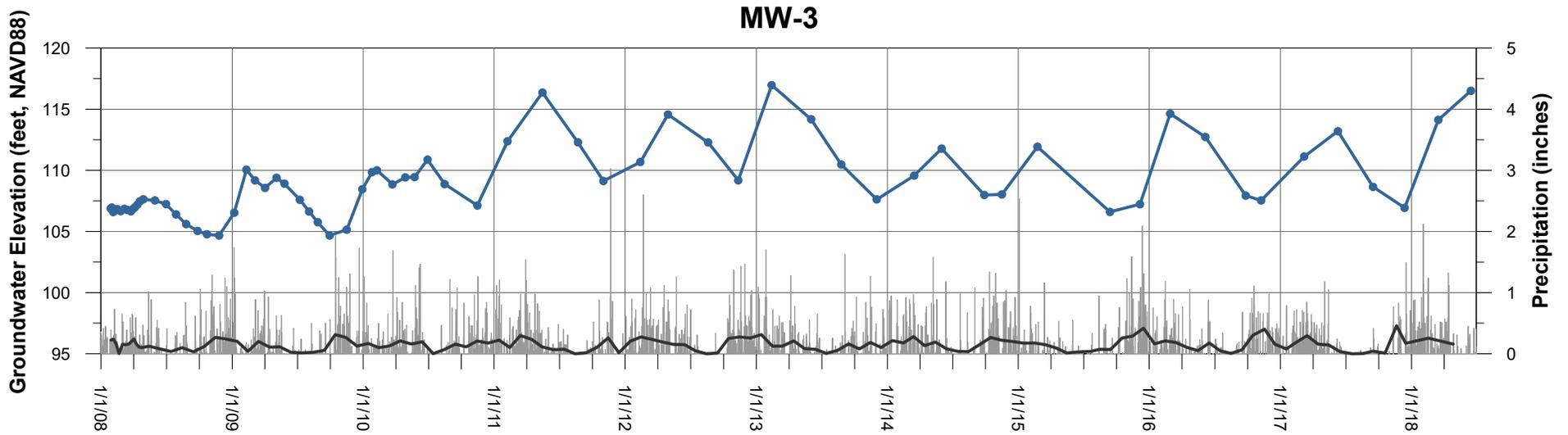


**Legend:**  
 Groundwater Elevation  
 Daily Precipitation  
 Average Monthly Precipitation

**FIGURE A-8**  
**MW-1 and MW-2 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-1 was not measured during the First and Second Quarters in 2014.



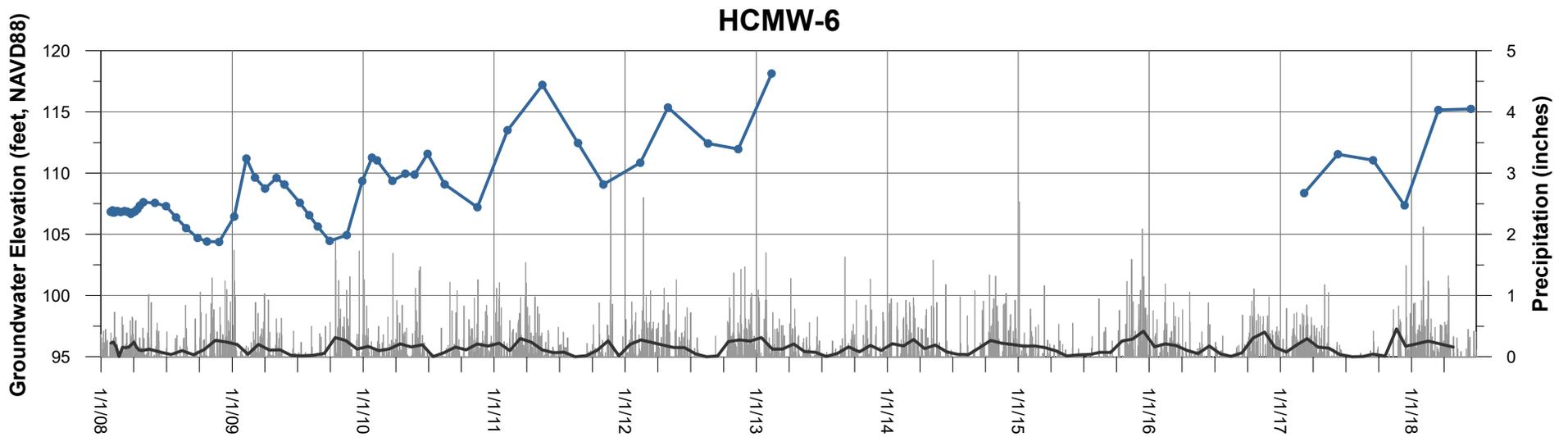
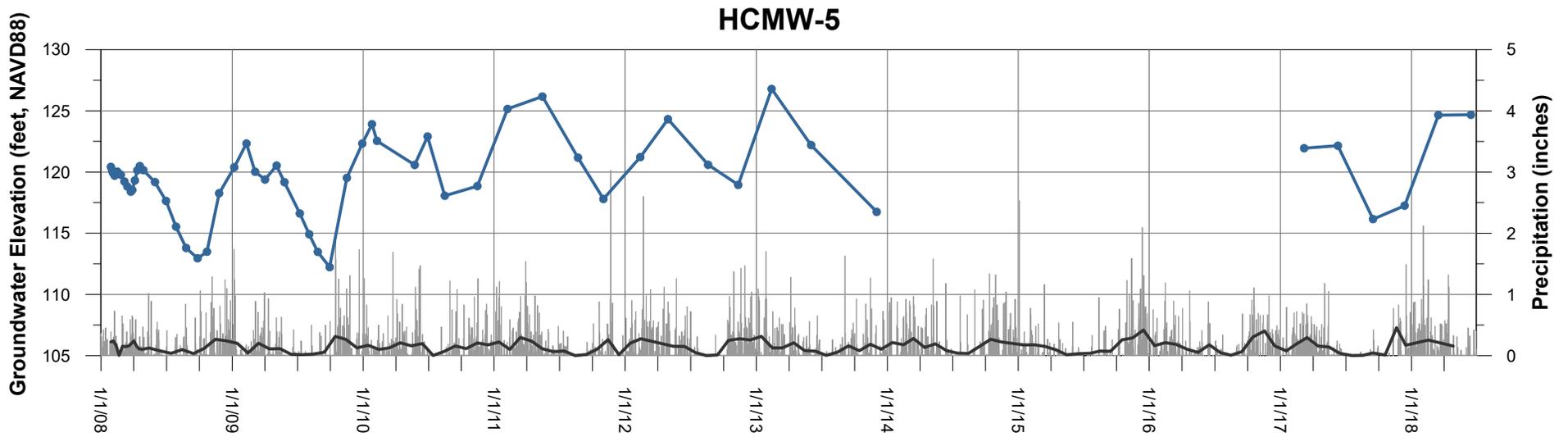


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-4 was not measured during the First Quarter 2014.

**FIGURE A-9**  
**MW-3 and MW-4 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





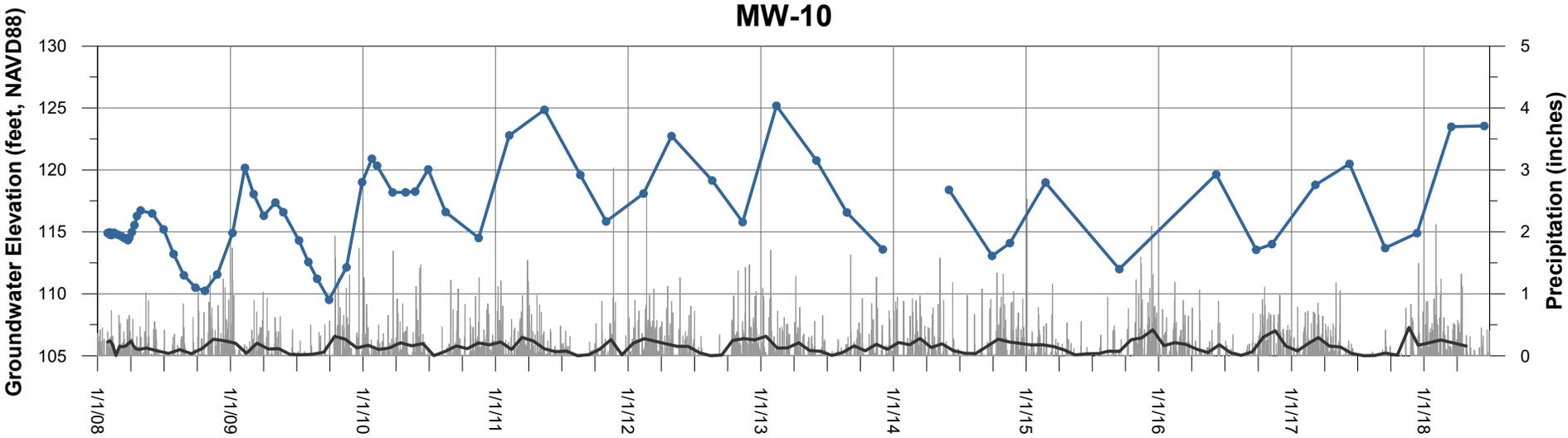
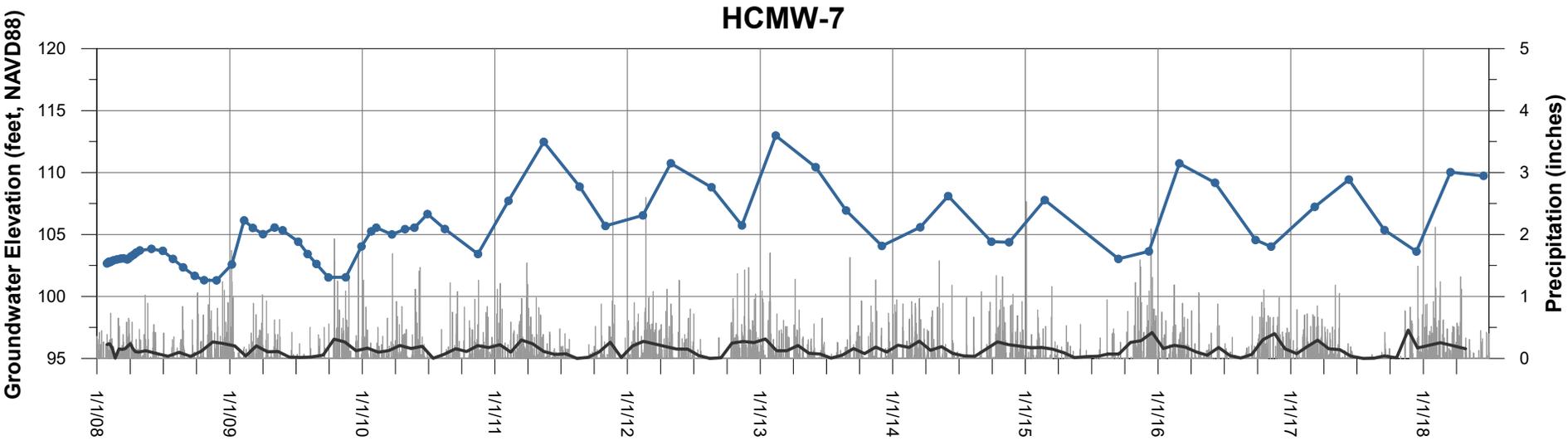
- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 HCMW-5 was not measured after Fourth Quarter 2013.  
 HCMW-6 was not measured after First Quarter 2013.

**FIGURE A-10**  
**HCMW-5 and HCMW-6 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



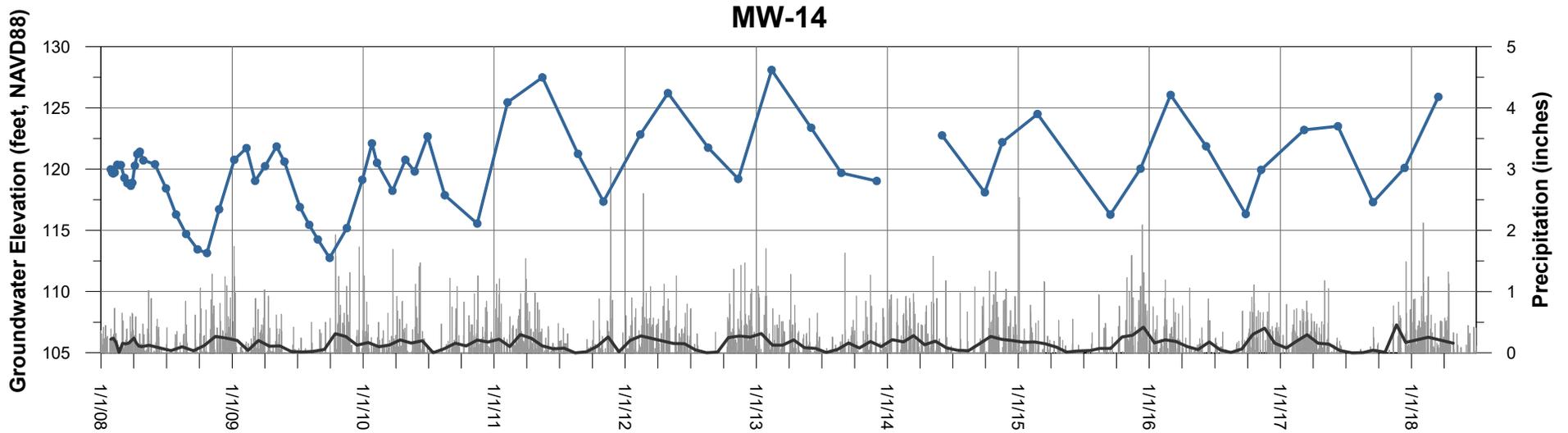
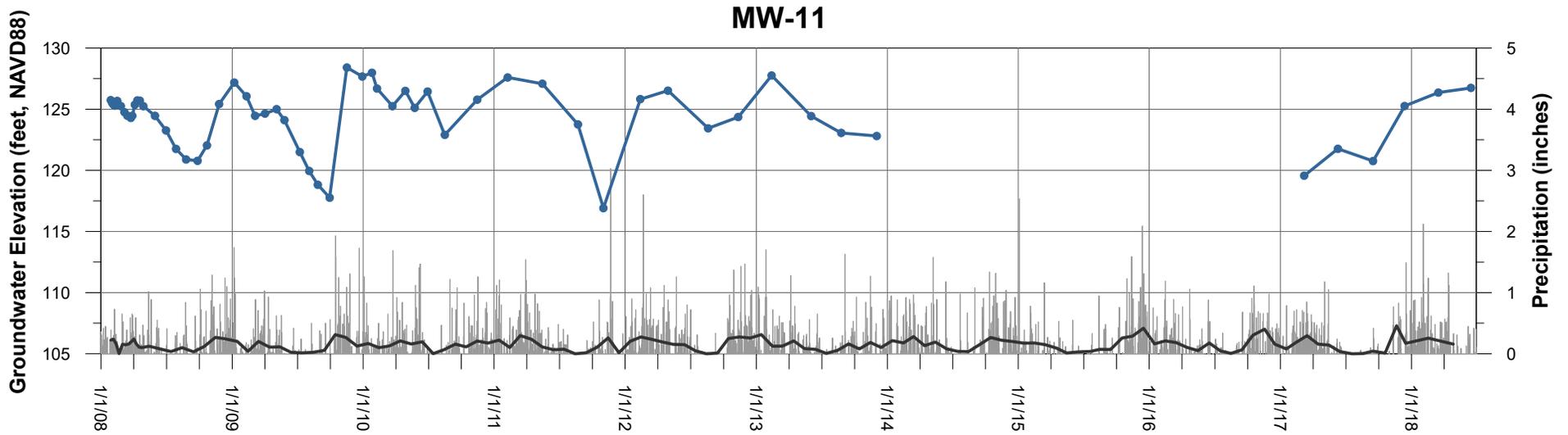


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-10 was not measured during the First Quarter 2014, the Fourth Quarter 2015, or the First Quarter 2016.

**FIGURE A-11**  
**HCMW-7 and MW-10 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



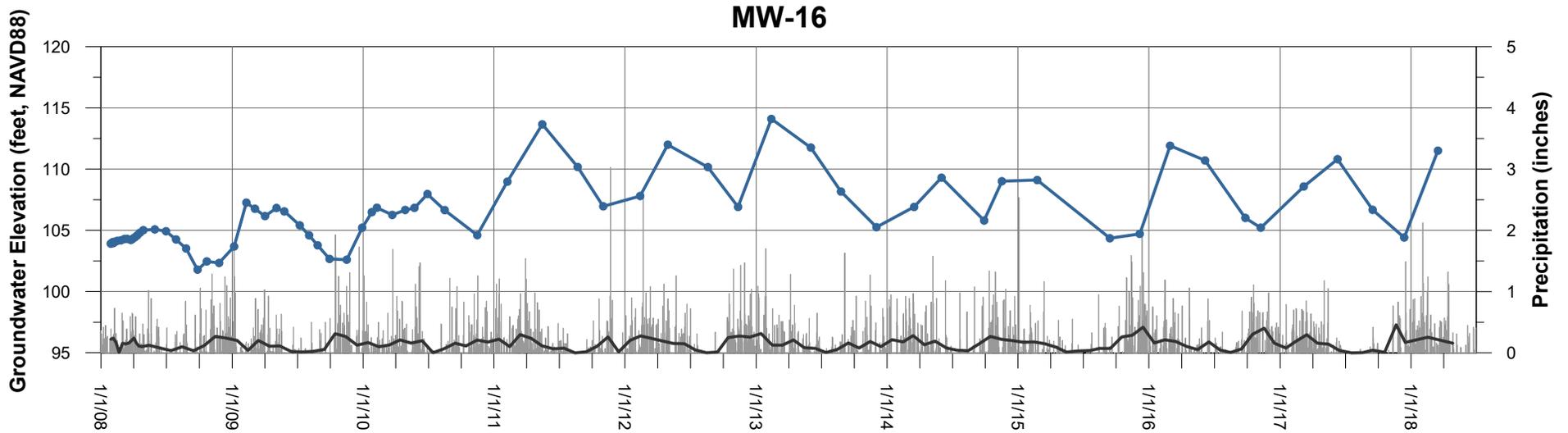
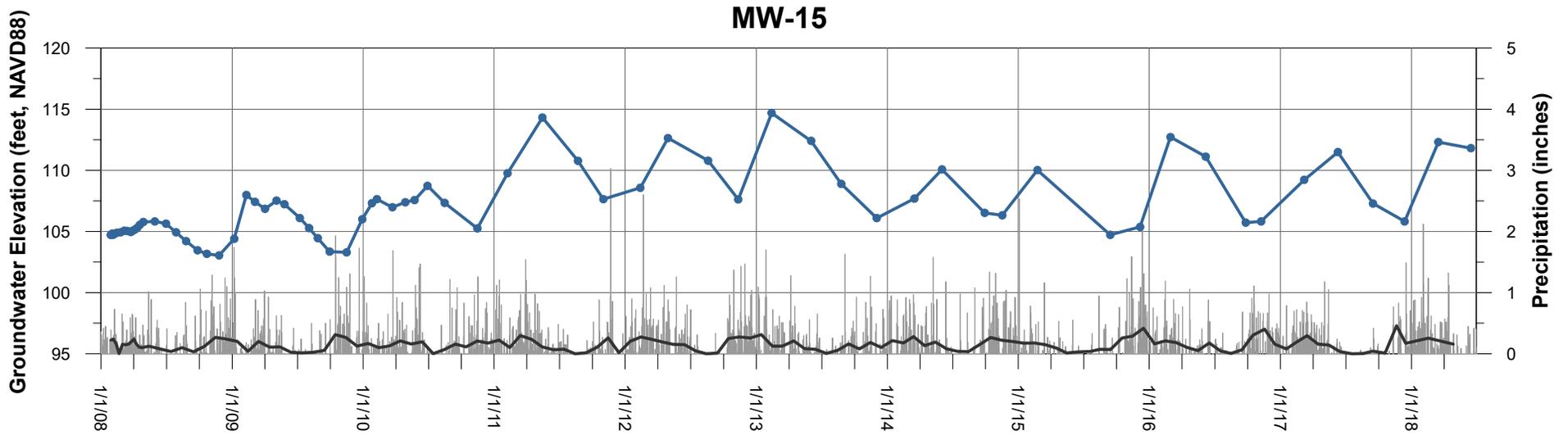


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-11 was not measured after Fourth Quarter 2013.  
 MW-14 was not measured during the First Quarter 2014.

**FIGURE A-12**  
**MW-11 and MW-14 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





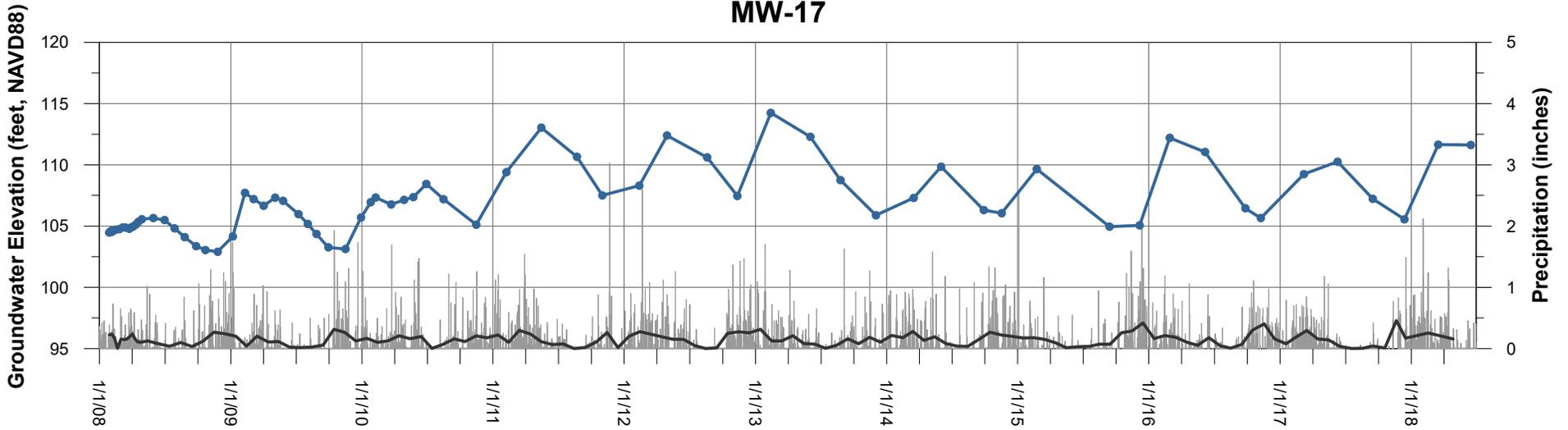
- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-15 measurement from the Second Quarter 2011 was suspected as incorrect and estimated by calculating the average elevation difference between MW-15 and MW-40 from the Third Quarter 2010 through the First Quarter 2011, and adding this difference to the Second Quarter 2011 groundwater elevation measured at MW-40.

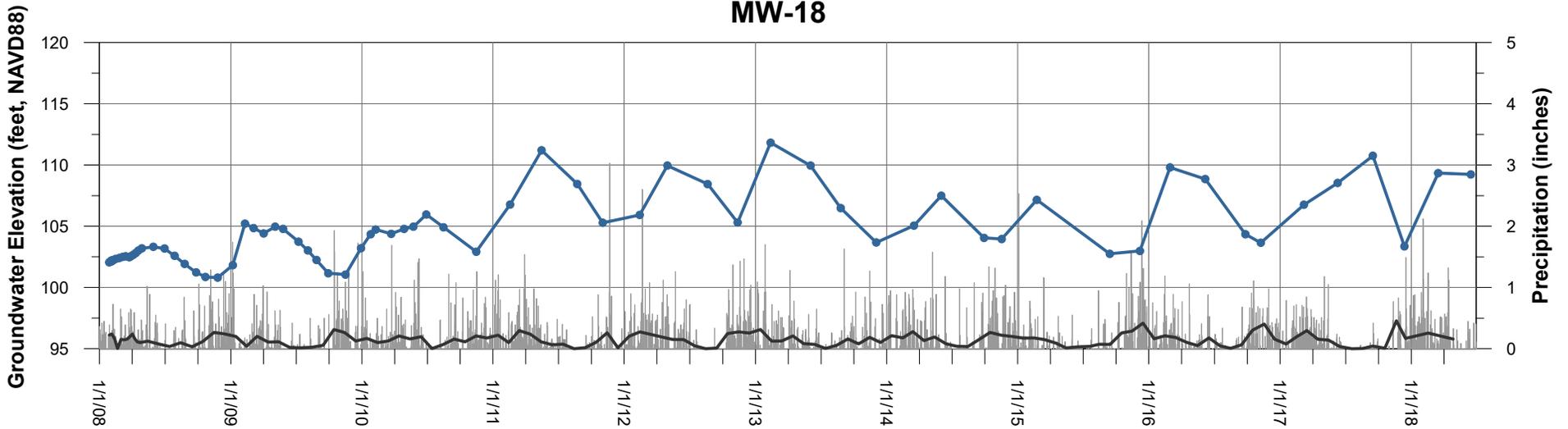
**FIGURE A-13**  
**MW-15 and MW-16 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-17



### MW-18



**Legend:**

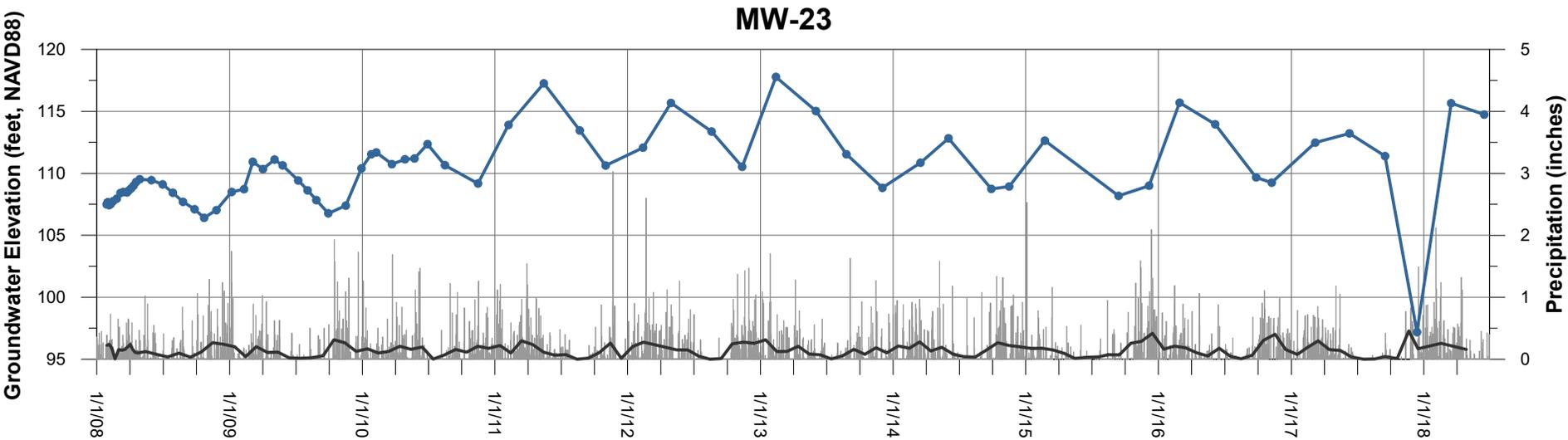
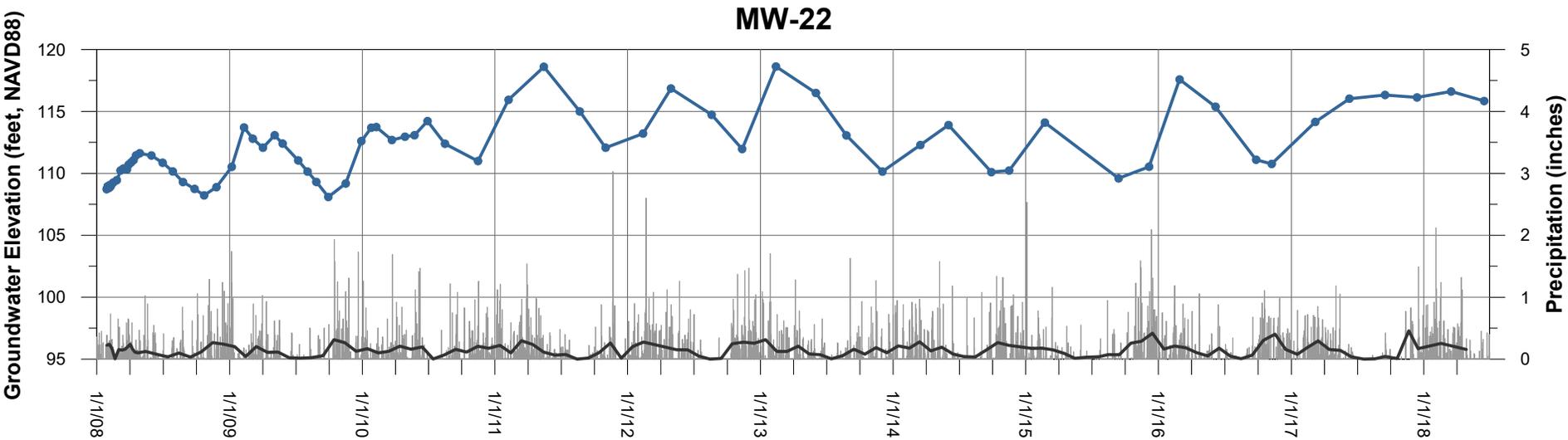
- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

**Notes:**

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

**FIGURE A-14**  
**MW-17 and MW-18 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





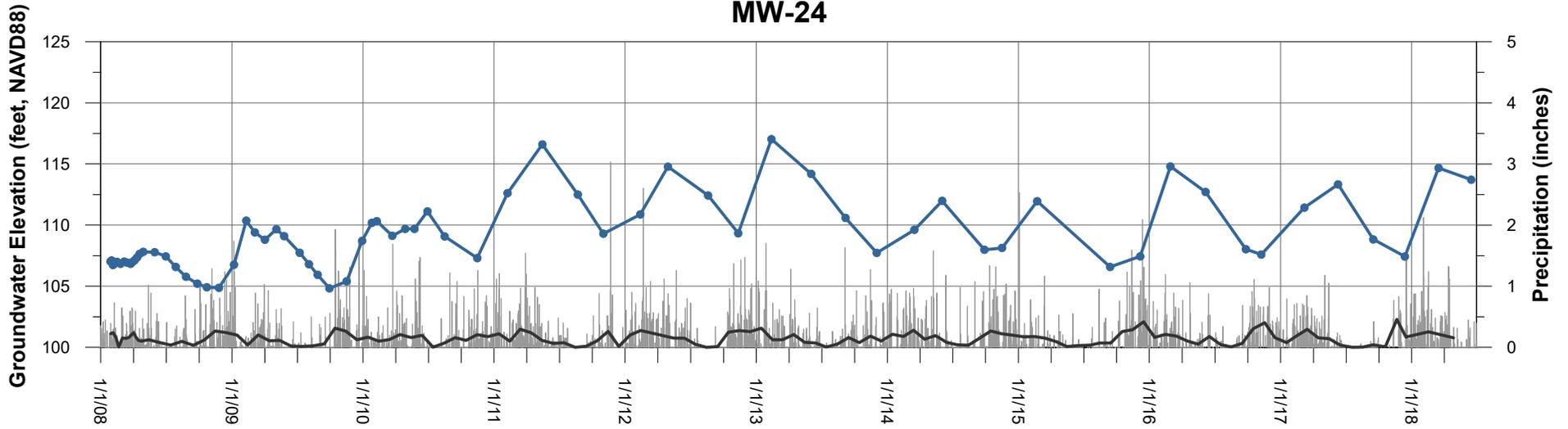
- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

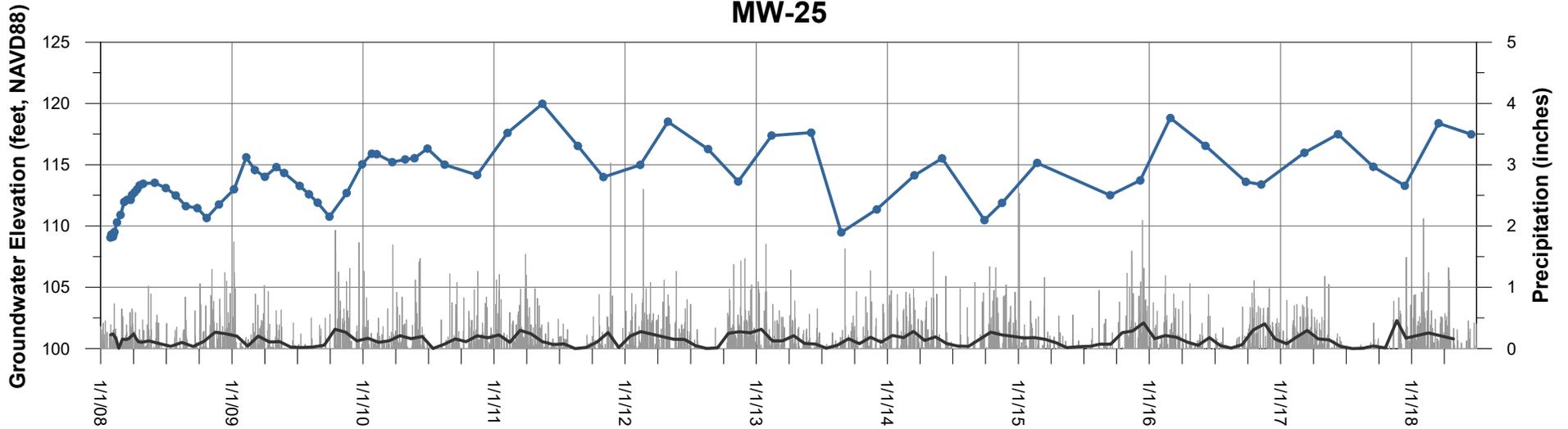
**FIGURE A-15**  
**MW-22 and MW-23 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-24



### MW-25



**Legend:**

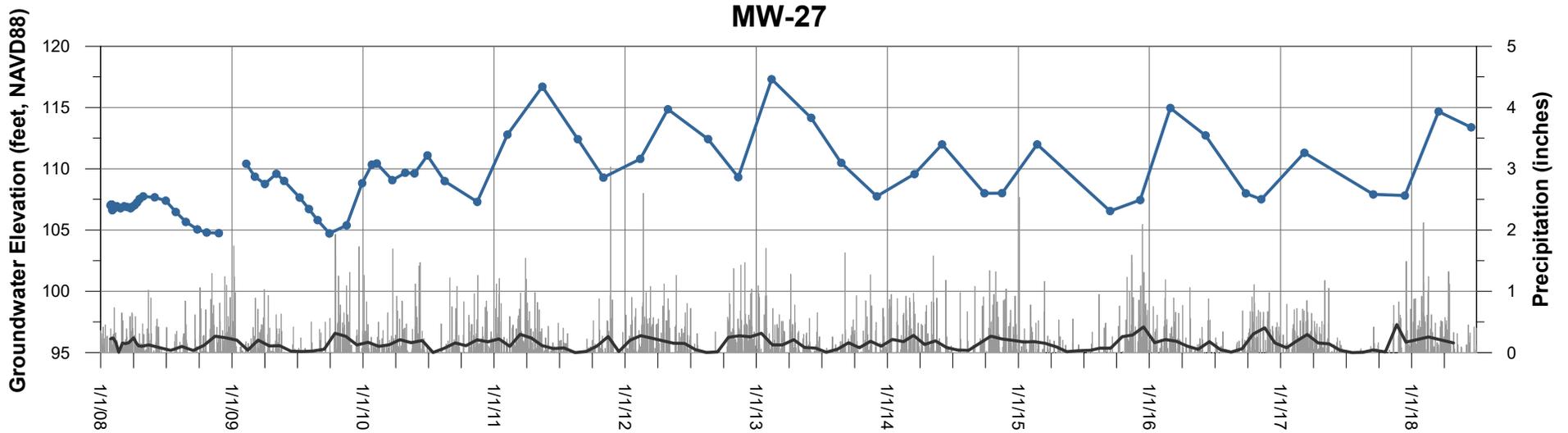
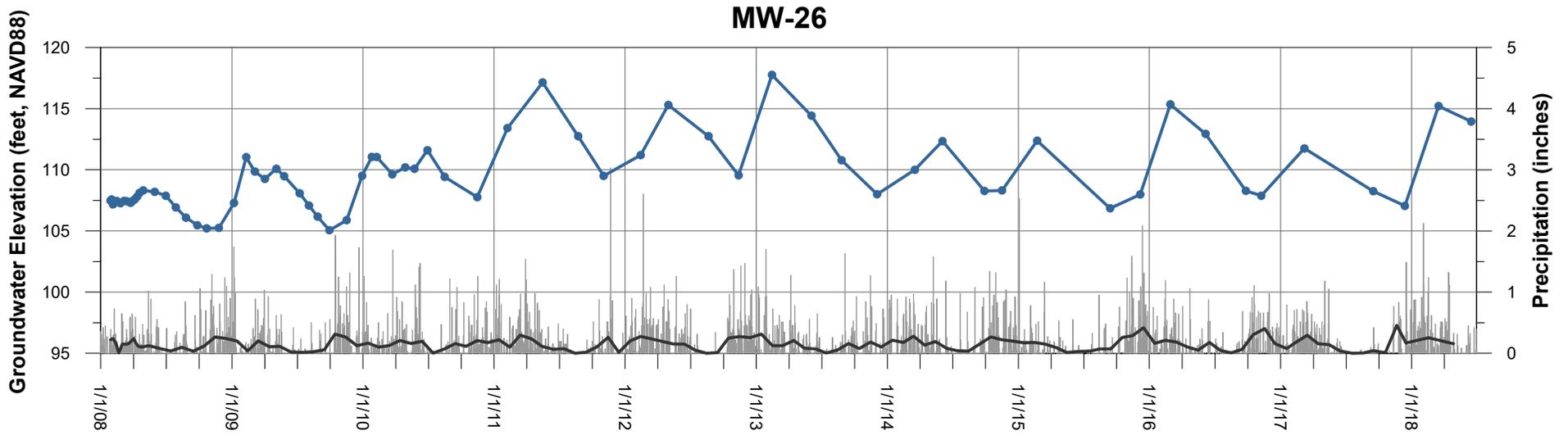
- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

**Notes:**

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

**FIGURE A-16**  
**MW-24 and MW-25 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





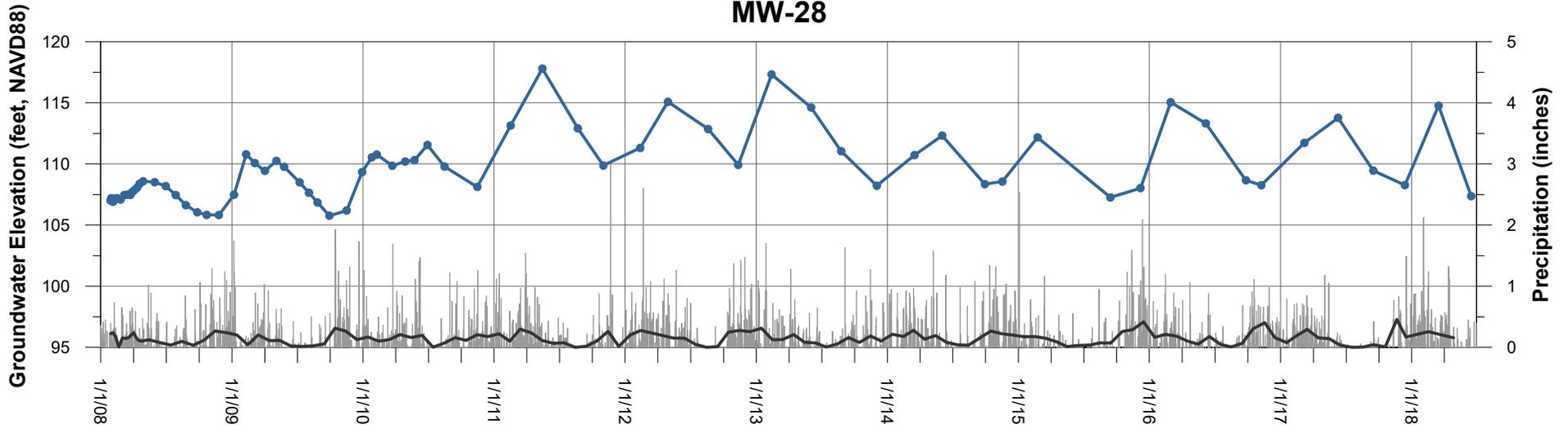
- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**FIGURE A-17**  
**MW-26 and MW-27 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

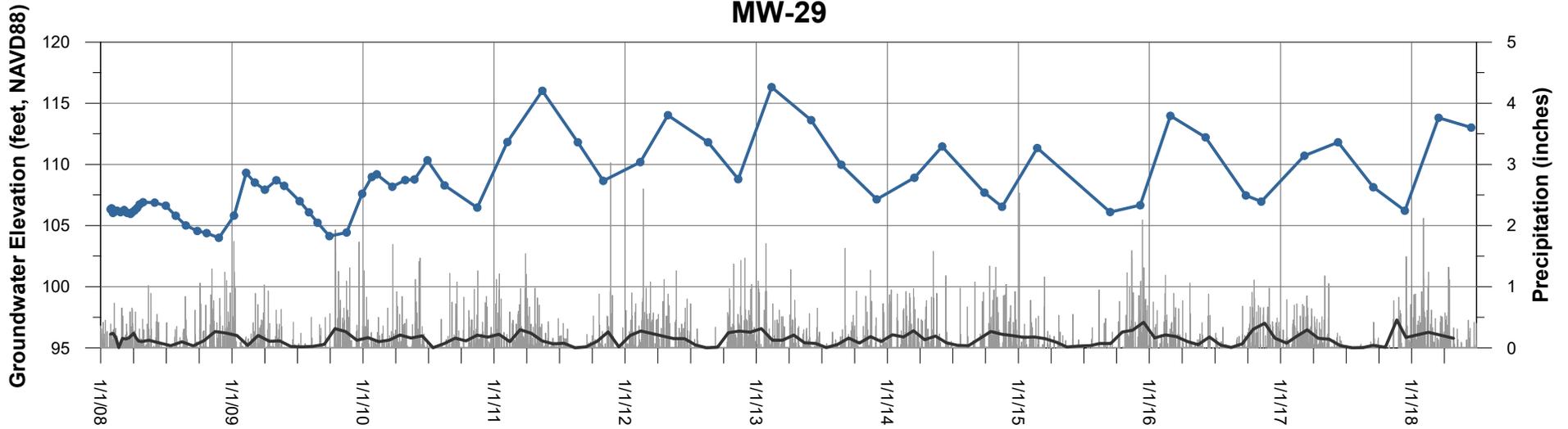
**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-27 was not measured in December 2008 due to high surface water conditions surrounding the well.



### MW-28



### MW-29

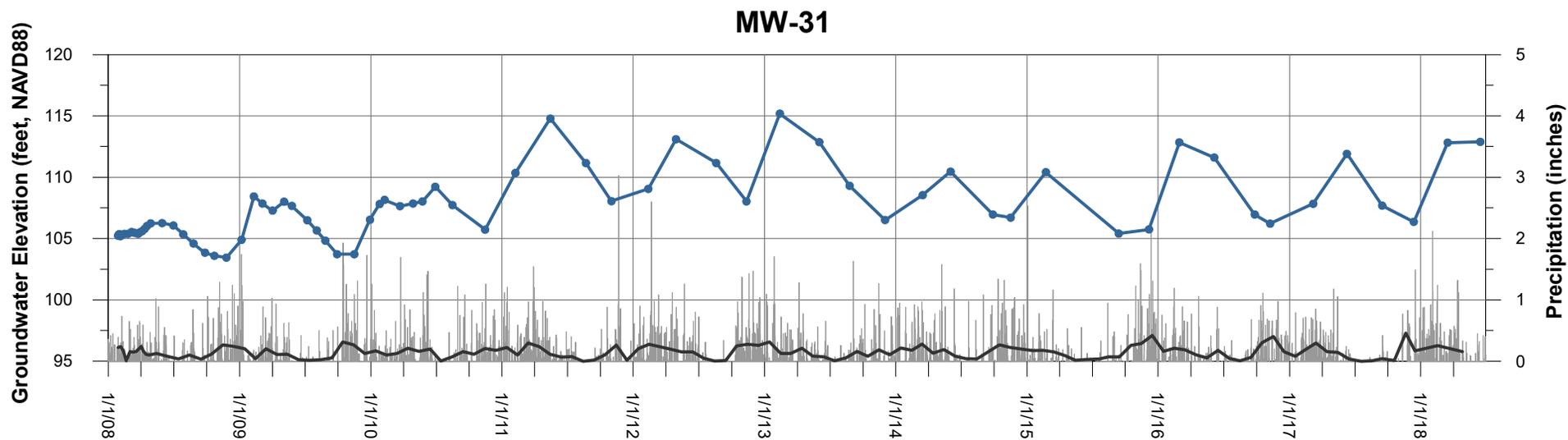
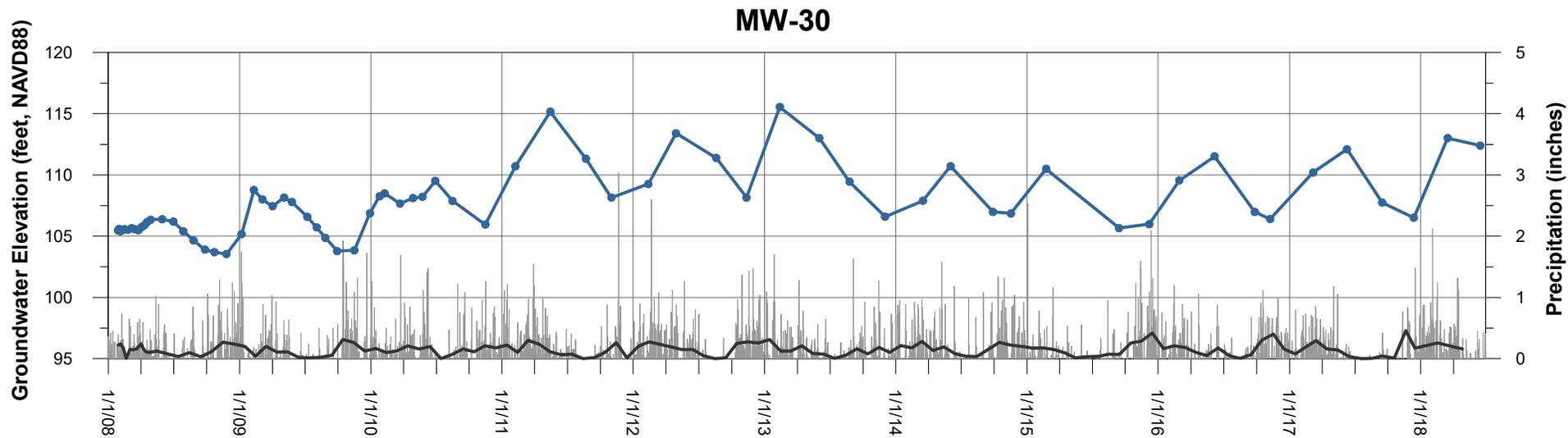


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**FIGURE A-18**  
**MW-28 and MW-29 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.



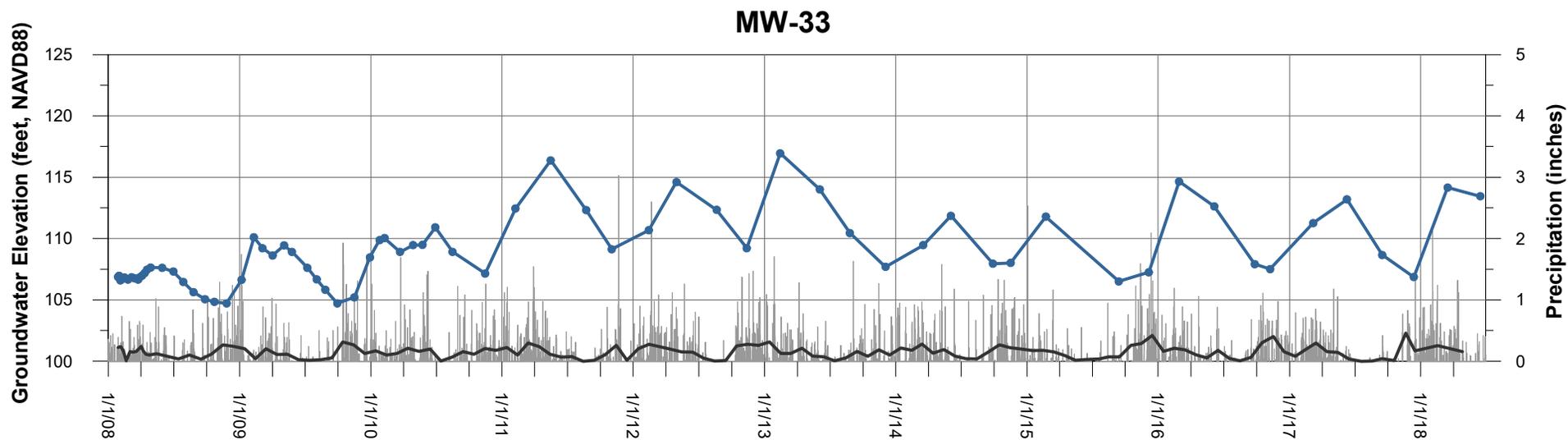
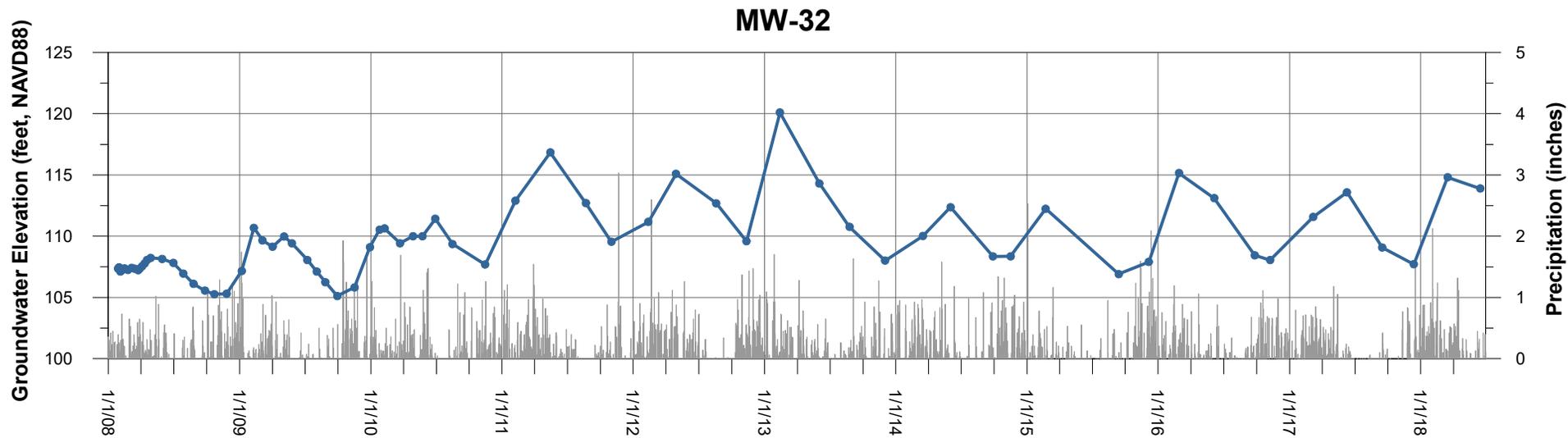


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

**FIGURE A-19**  
**MW-30 and MW-31 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



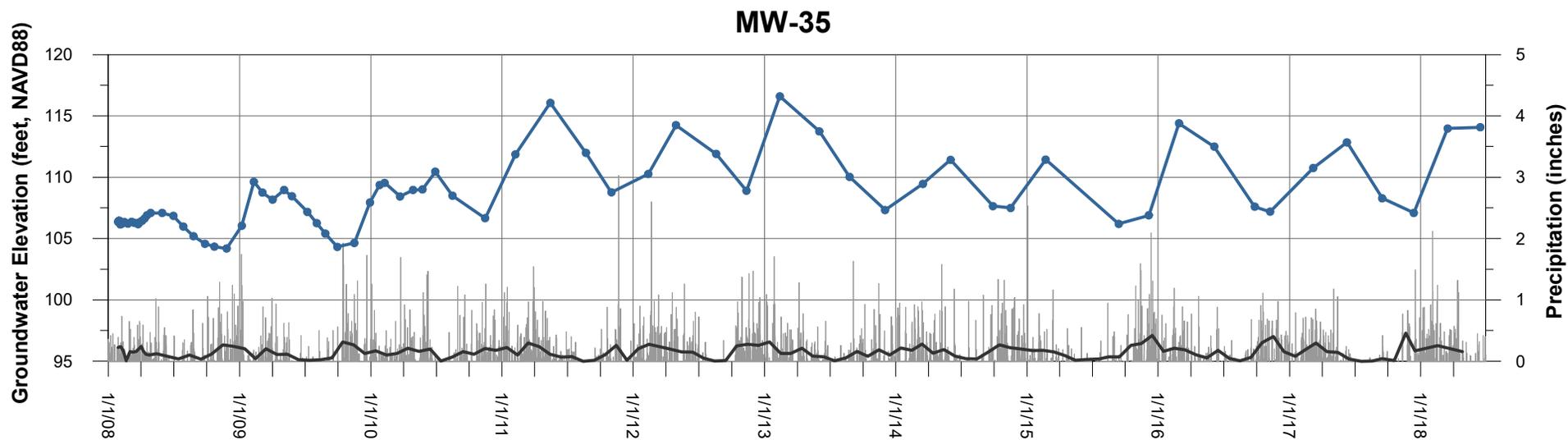
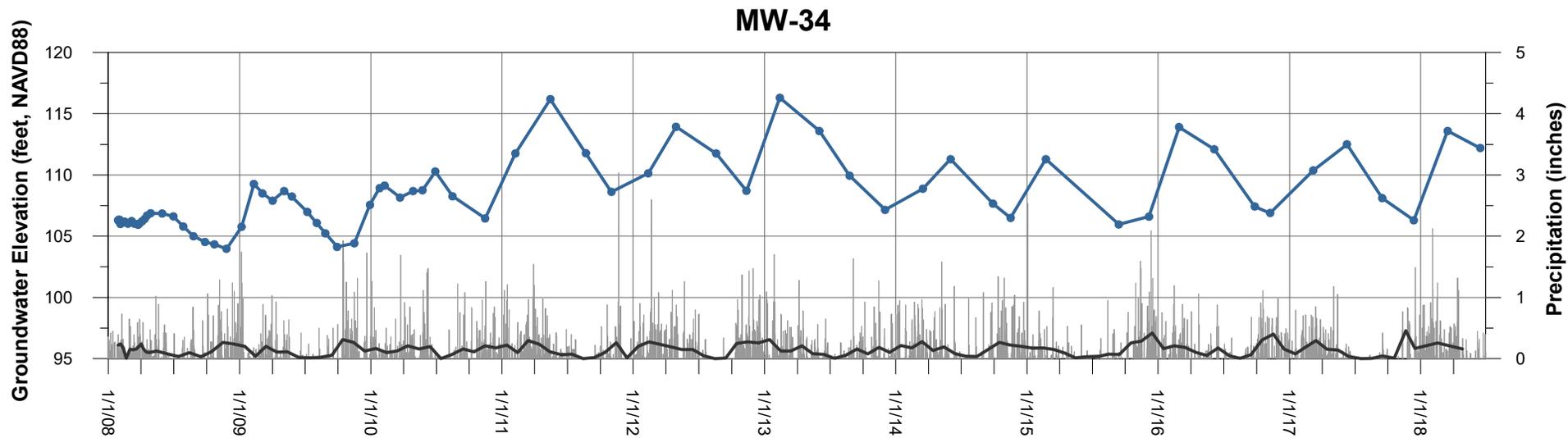


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

**FIGURE A-20**  
**MW-32 and MW-33 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



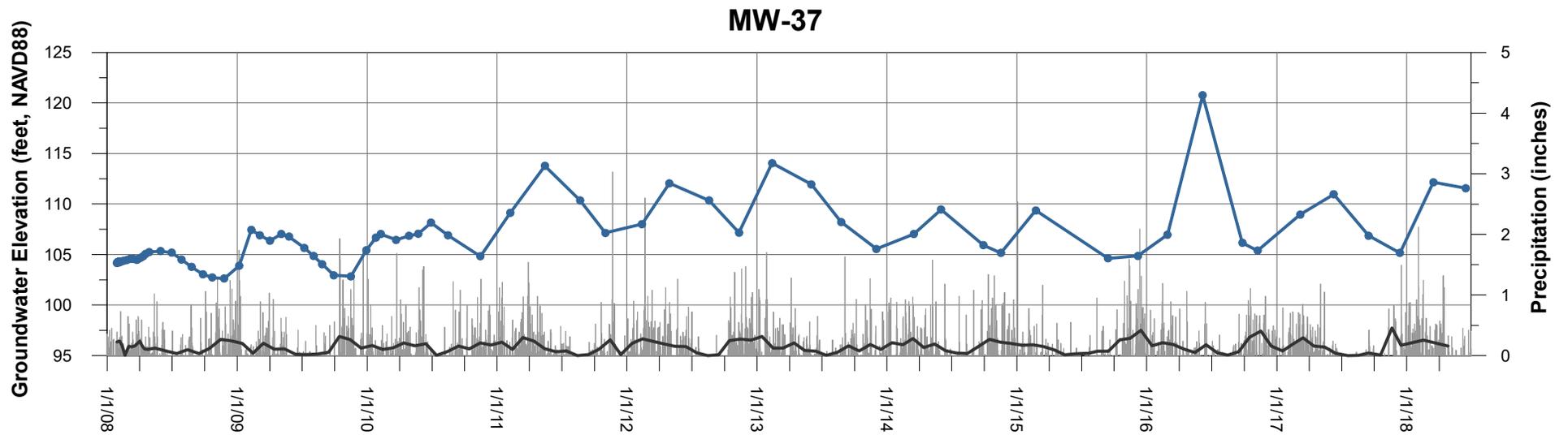
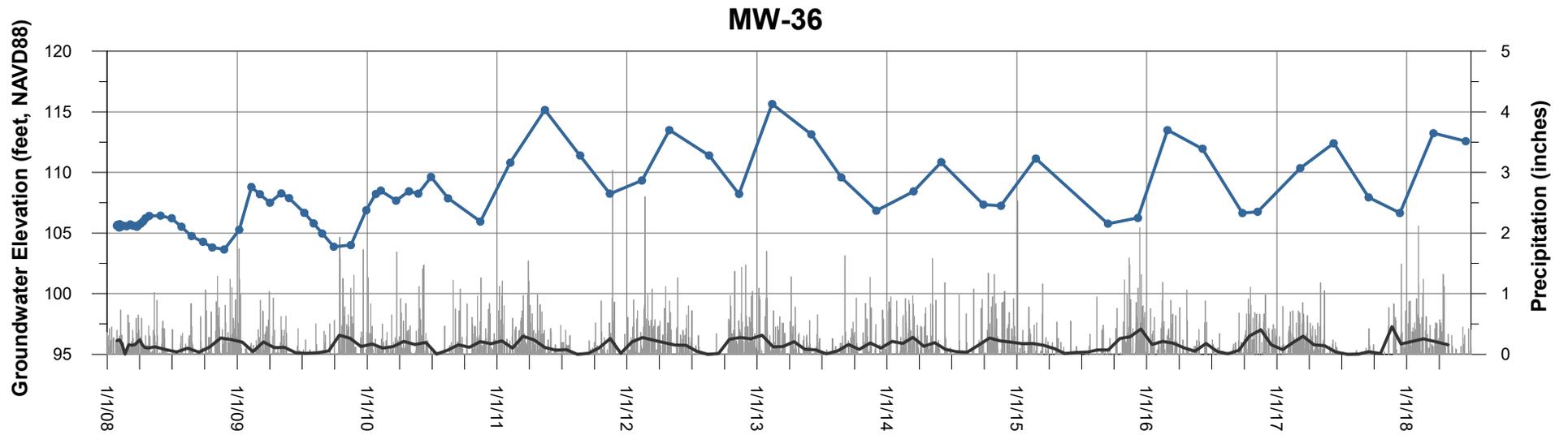


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.

**FIGURE A-21**  
**MW-34 and MW-35 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



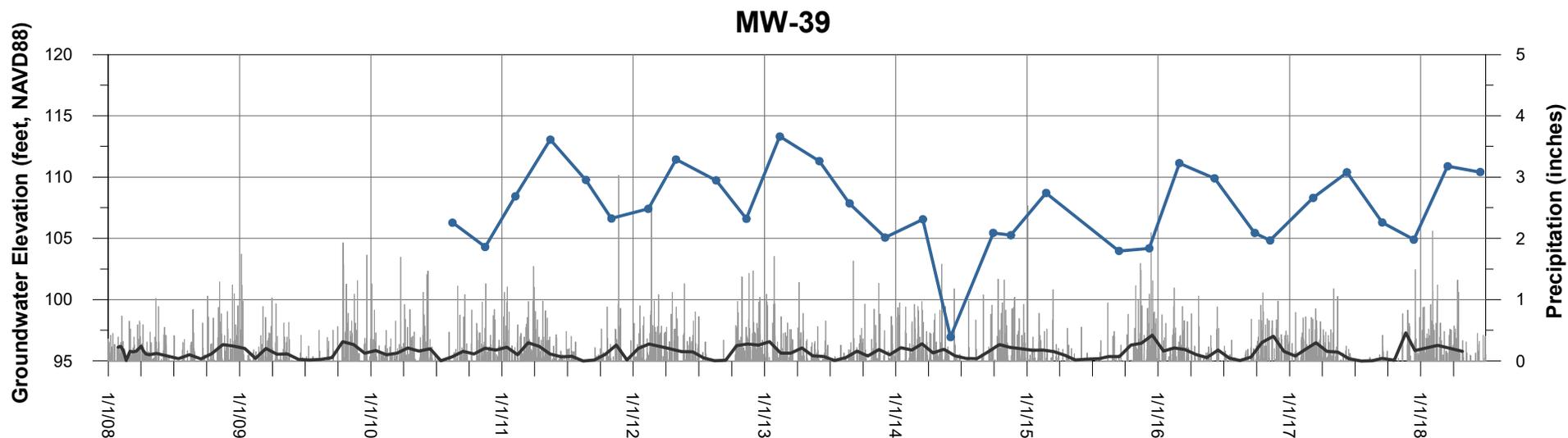
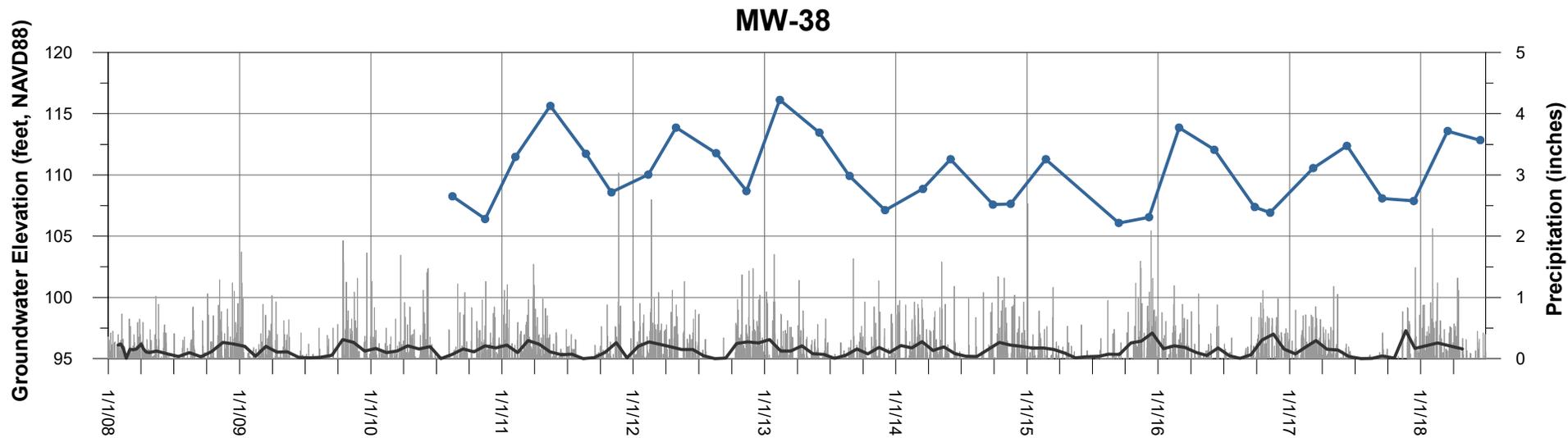


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**FIGURE A-22**  
**MW-36 and MW-37 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 Suspect measurement at MW-37 in Second Quarter 2016.



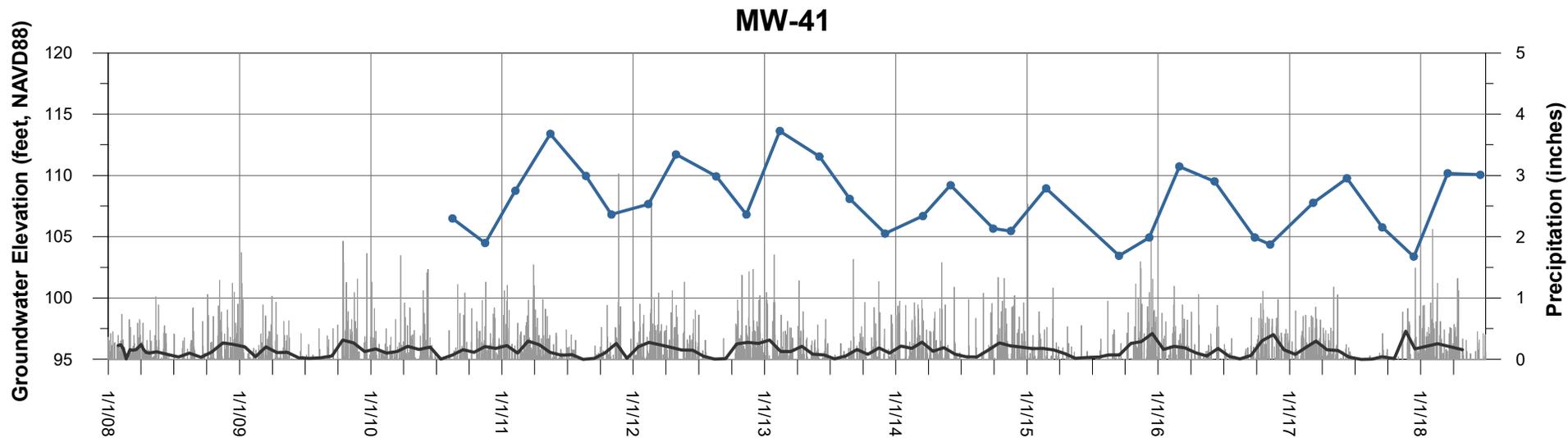
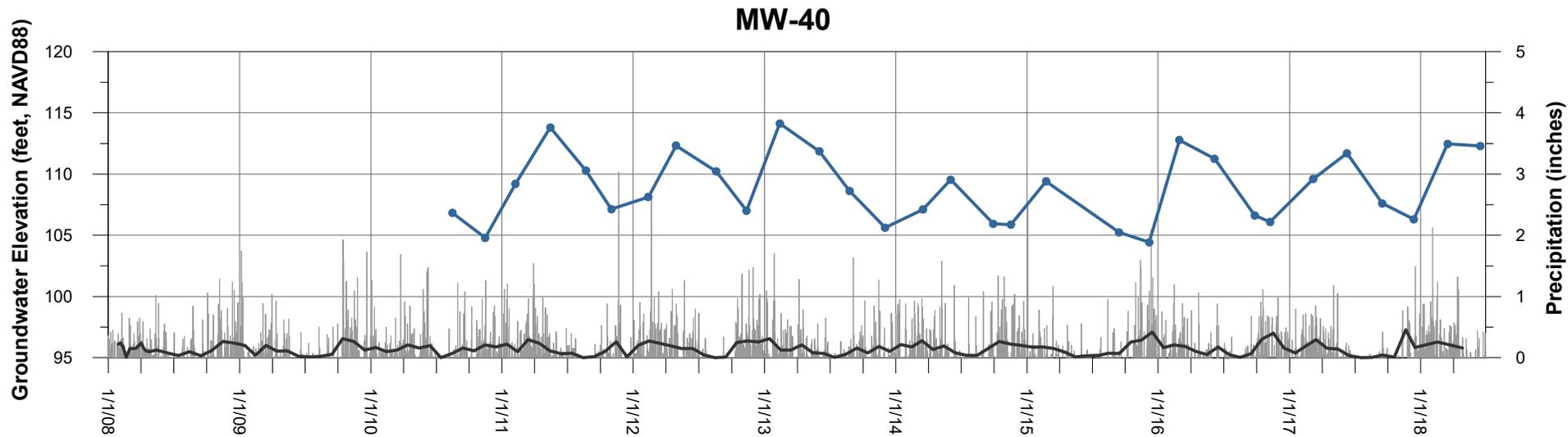


- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-38 and MW-39 constructed in July 2010.  
 MW-39 measurement from Second Quarter 2014 is suspected to be a field error and is ten feet lower than the expected value.

**FIGURE A-23**  
**MW-38 and MW-39 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





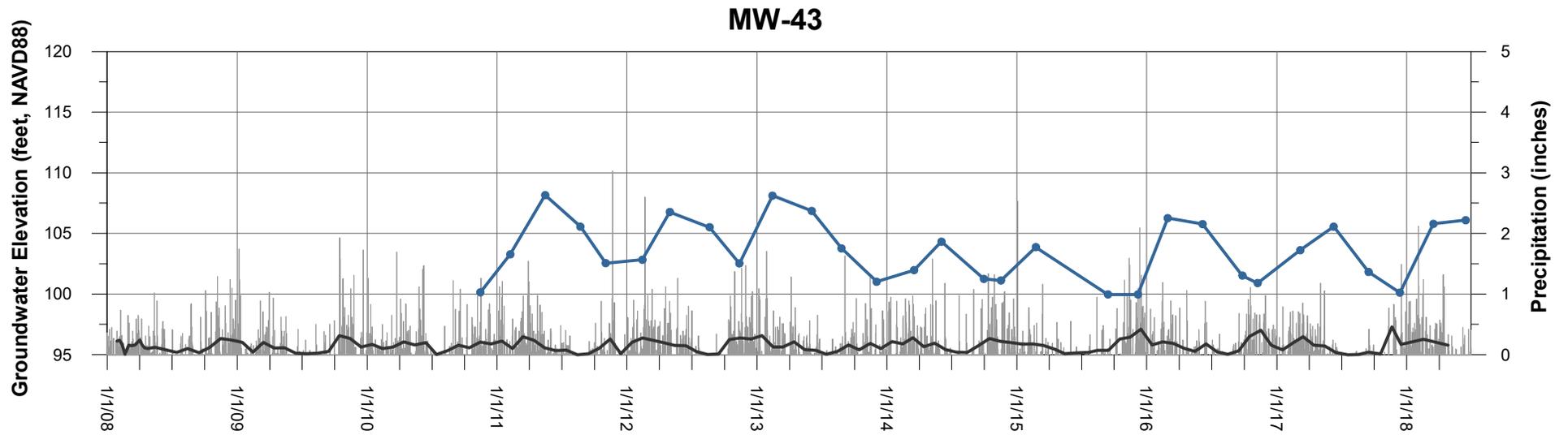
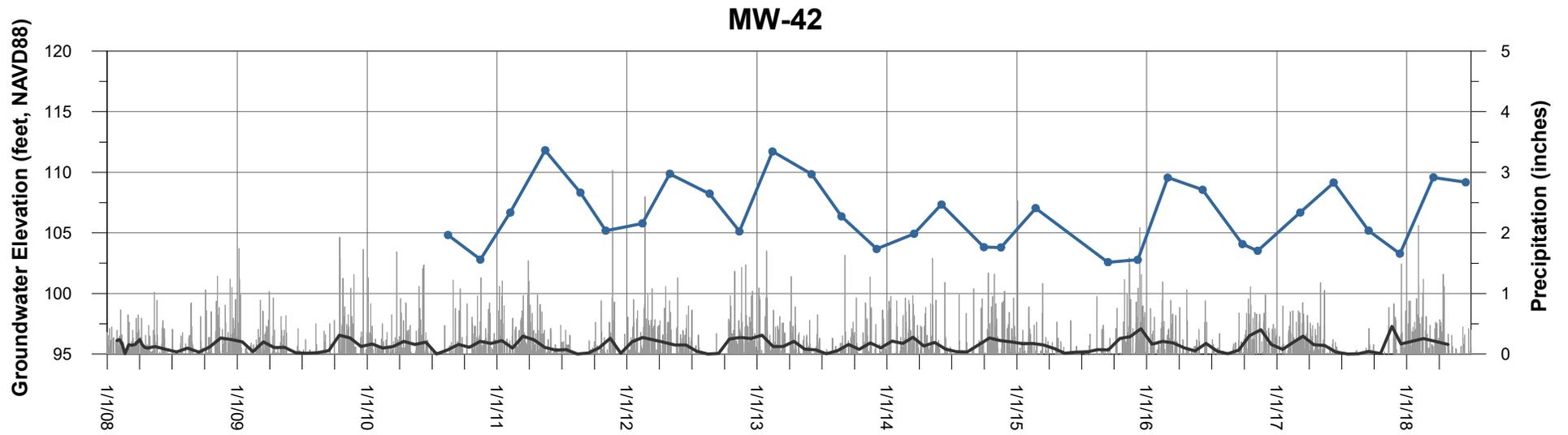
**Legend:**

- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

**FIGURE A-24**  
**MW-40 and MW-41 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-40 and MW-41 constructed in July 2010.





- Legend:**
- Groundwater Elevation
  - Daily Precipitation
  - Average Monthly Precipitation

**Notes:**  
 Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.  
 Precipitation includes rain and/or snow melt.  
 MW-42 constructed in July 2010 and MW-43 constructed in October 2010.

**FIGURE A-25**  
**MW-42 and MW-43 Hydrographs with Precipitation**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



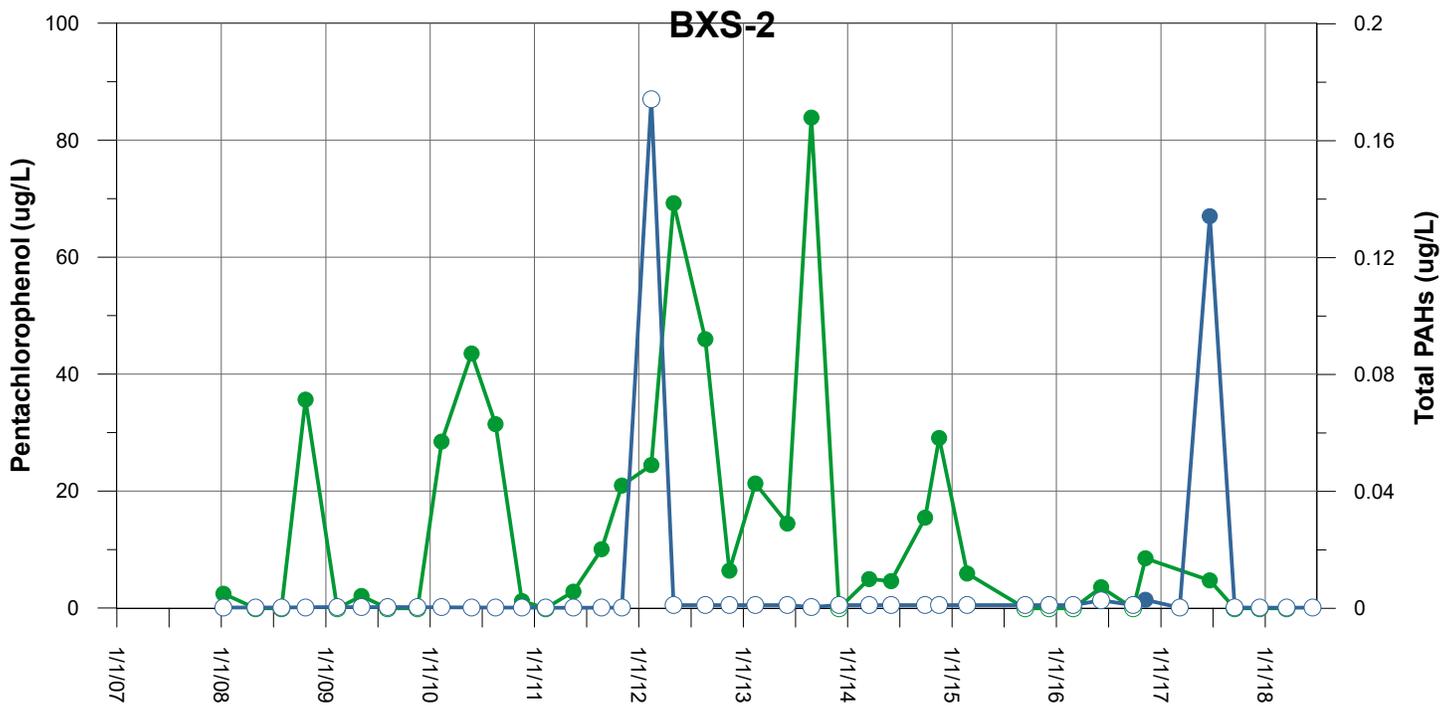
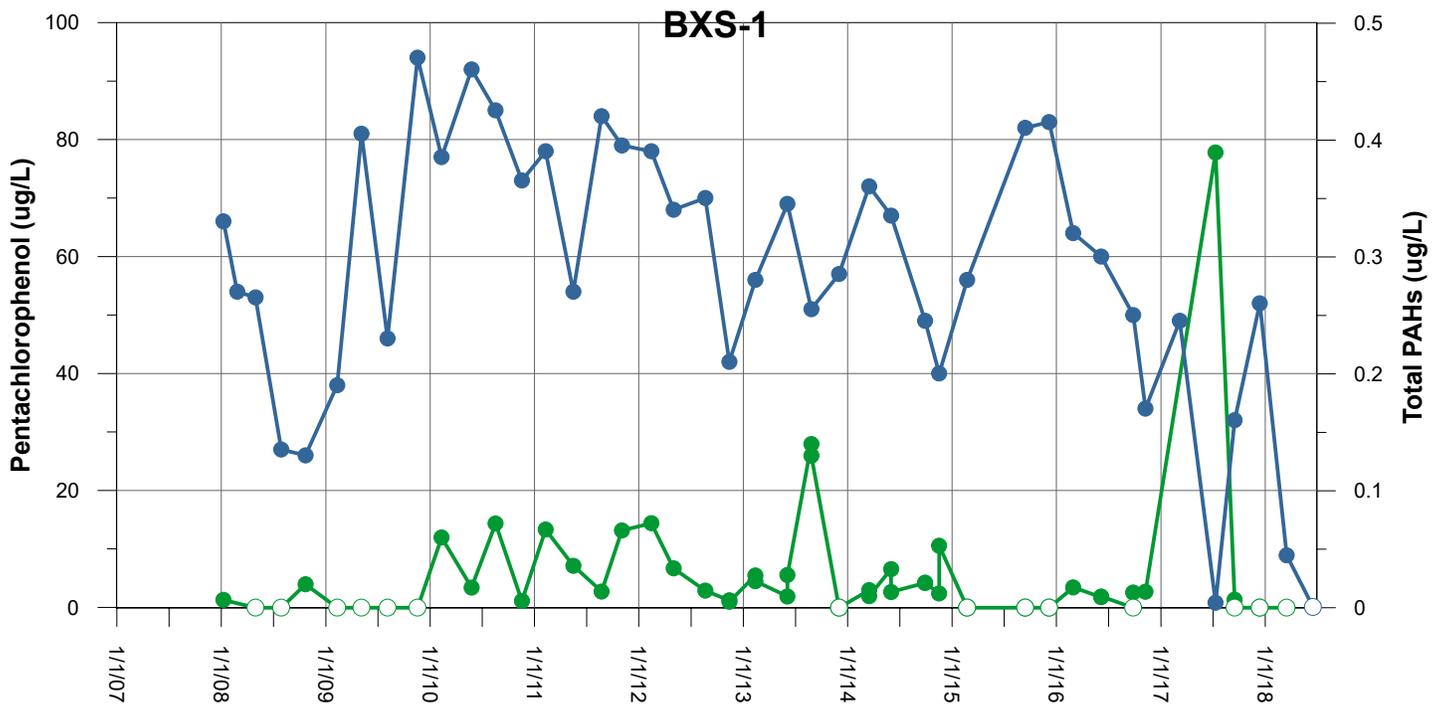
**Appendix B**

**(provided on CD only)**

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## Appendix C

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**Legend:**

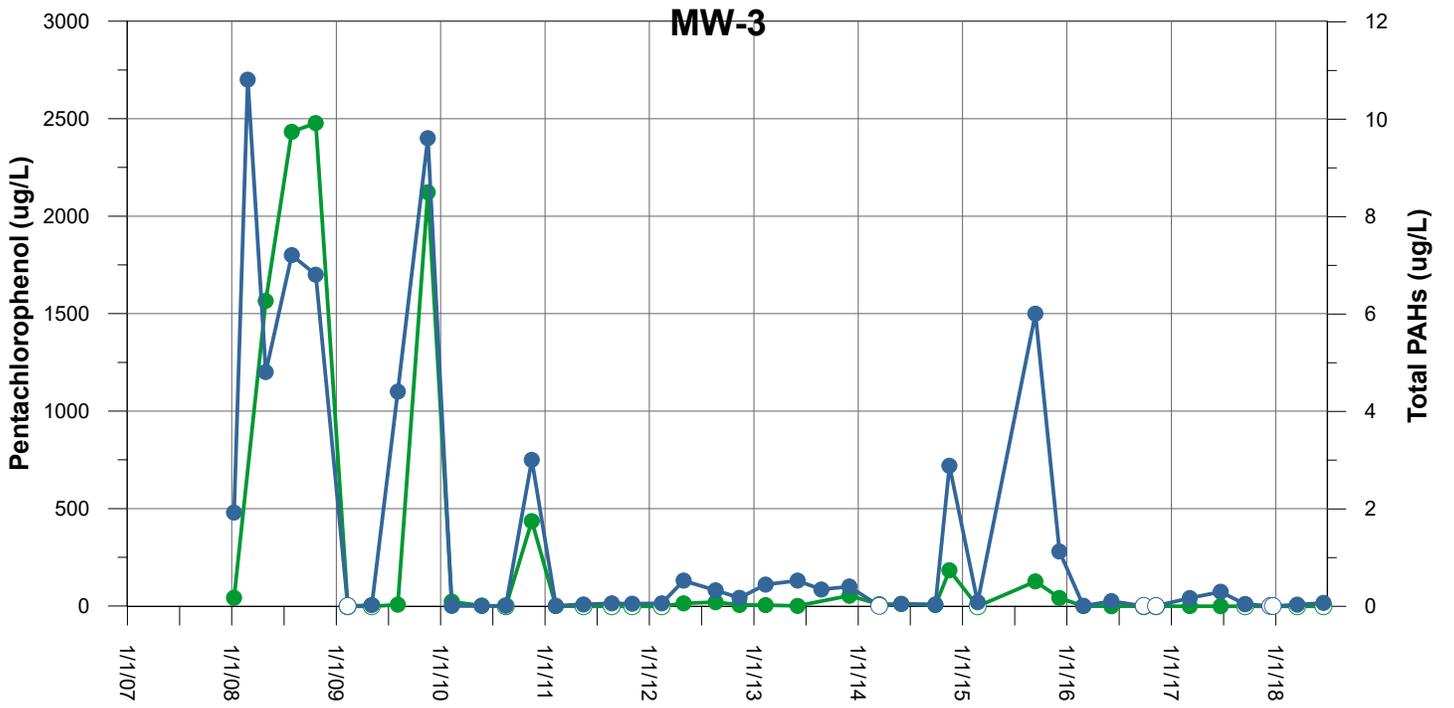
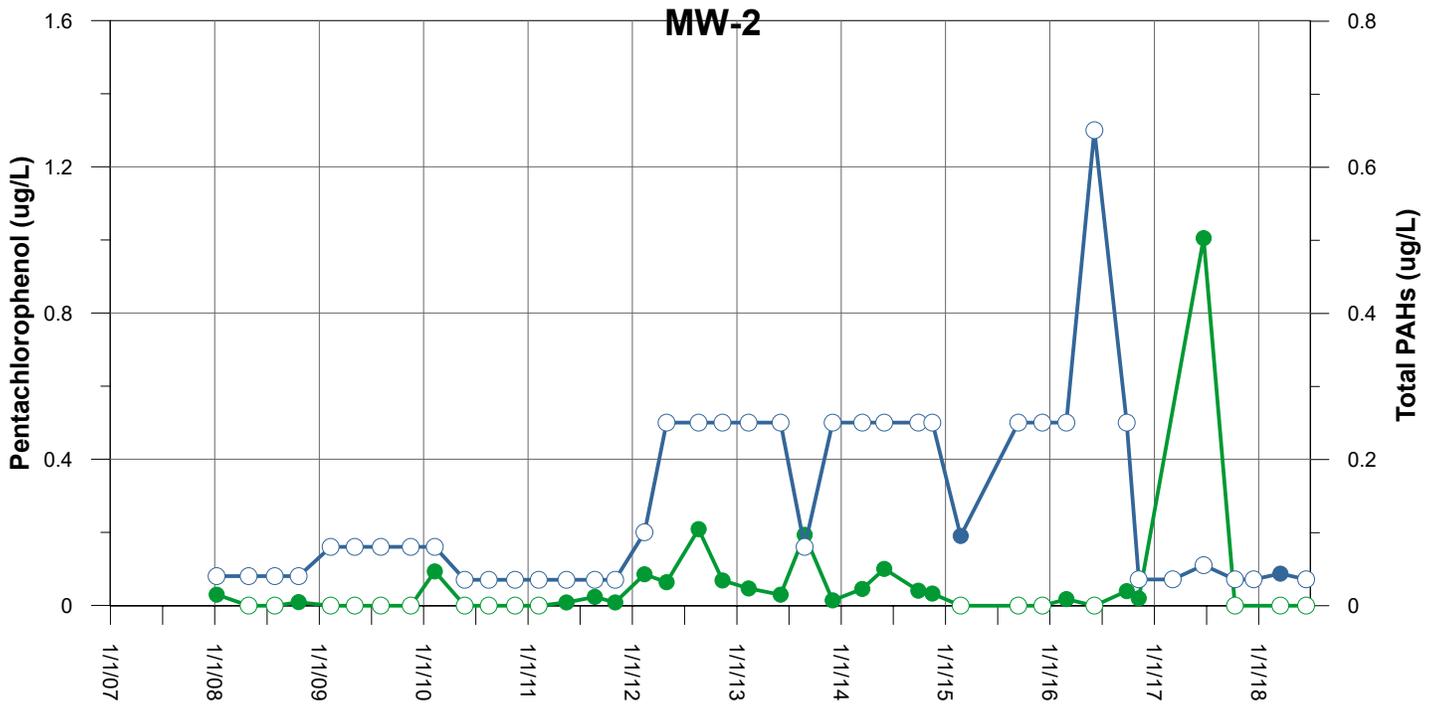
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

**Notes:**

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

**FIGURE C-1**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in BXS-1 and BXS-2**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



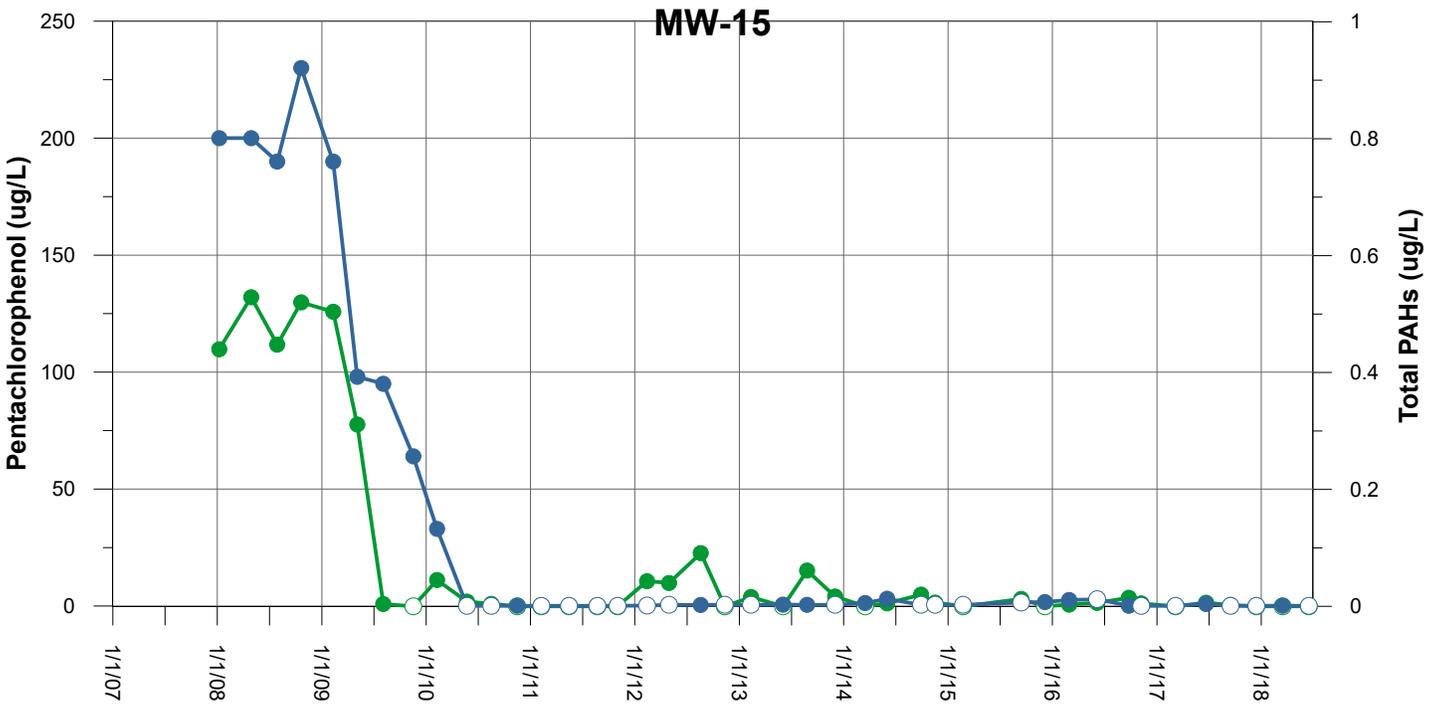
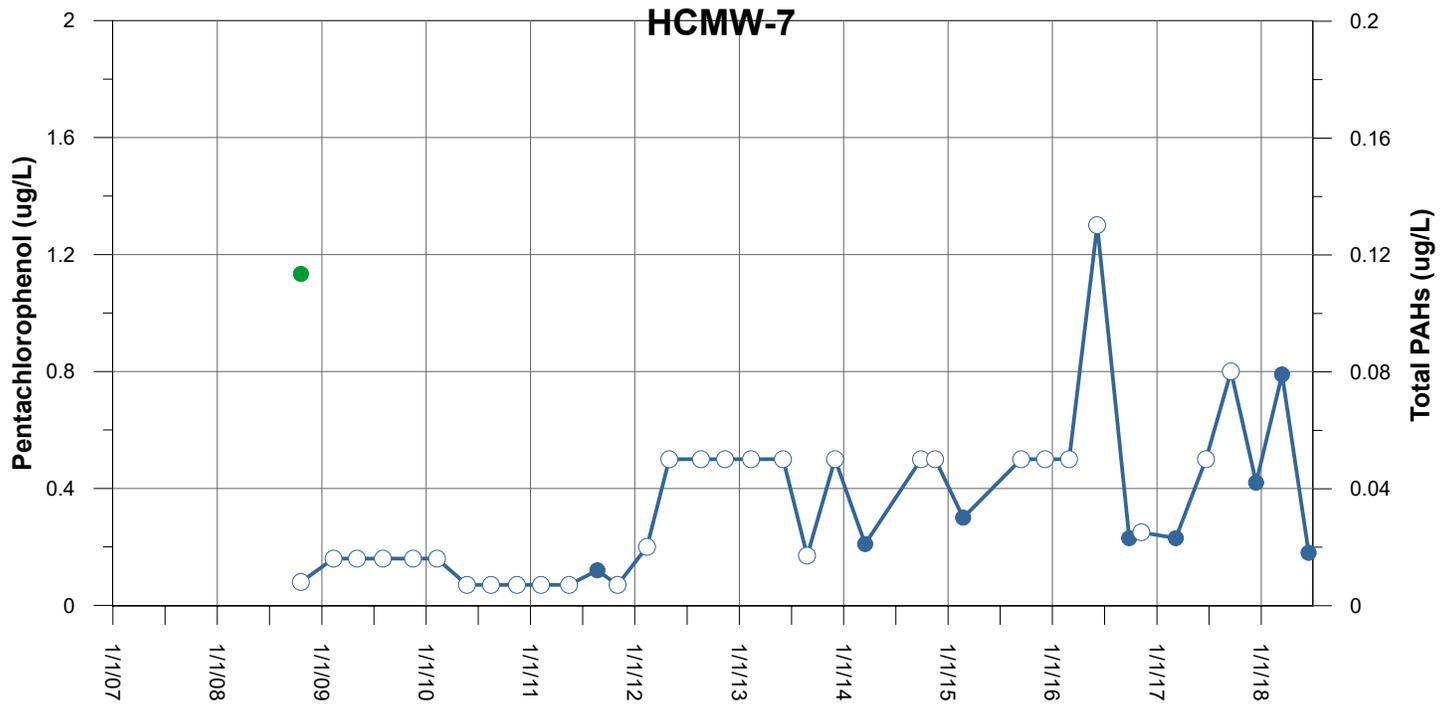


- Legend:**
- Pentachlorophenol Detected Values
  - Pentachlorophenol Non-Detected Values
  - Total PAHs Detected Values
  - Total PAHs Non-Detected Values

**Notes:**  
 ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

**FIGURE C-2**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-2 and MW-3**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

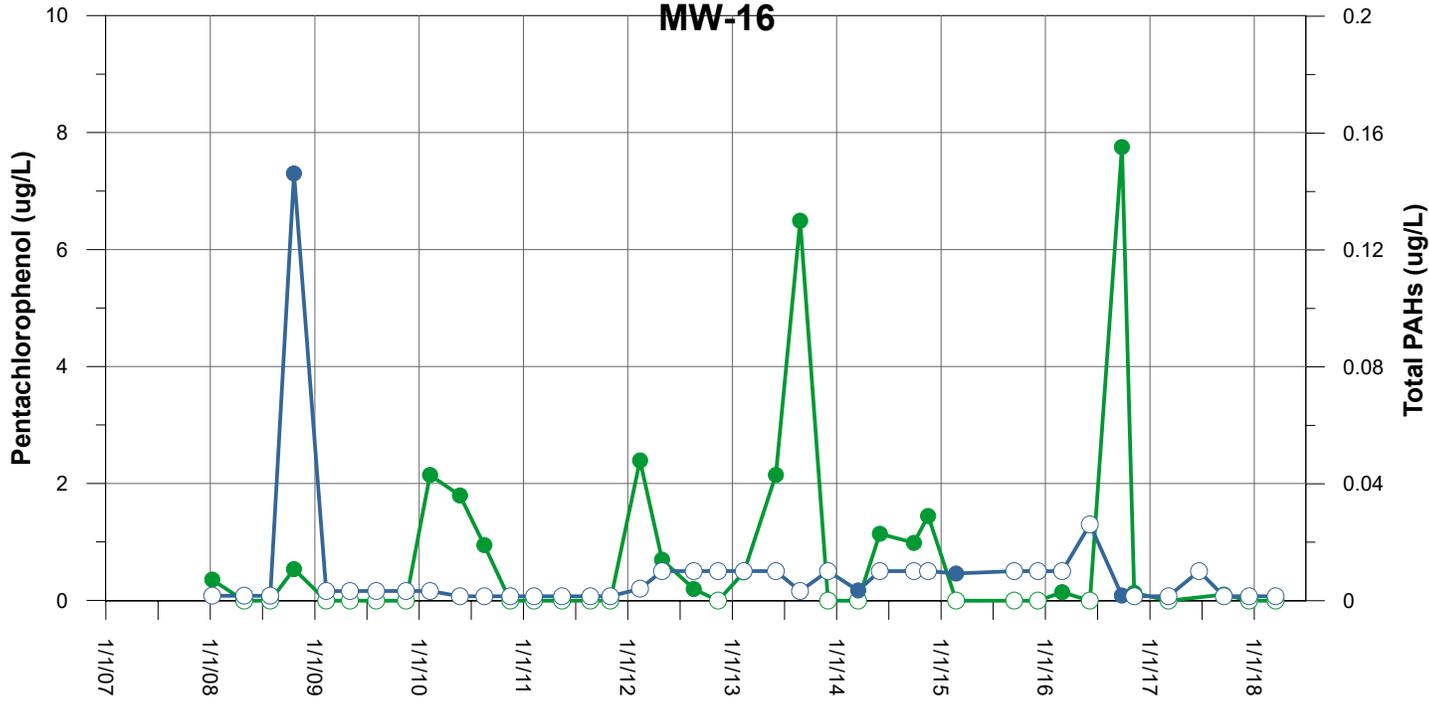
**Notes:**

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

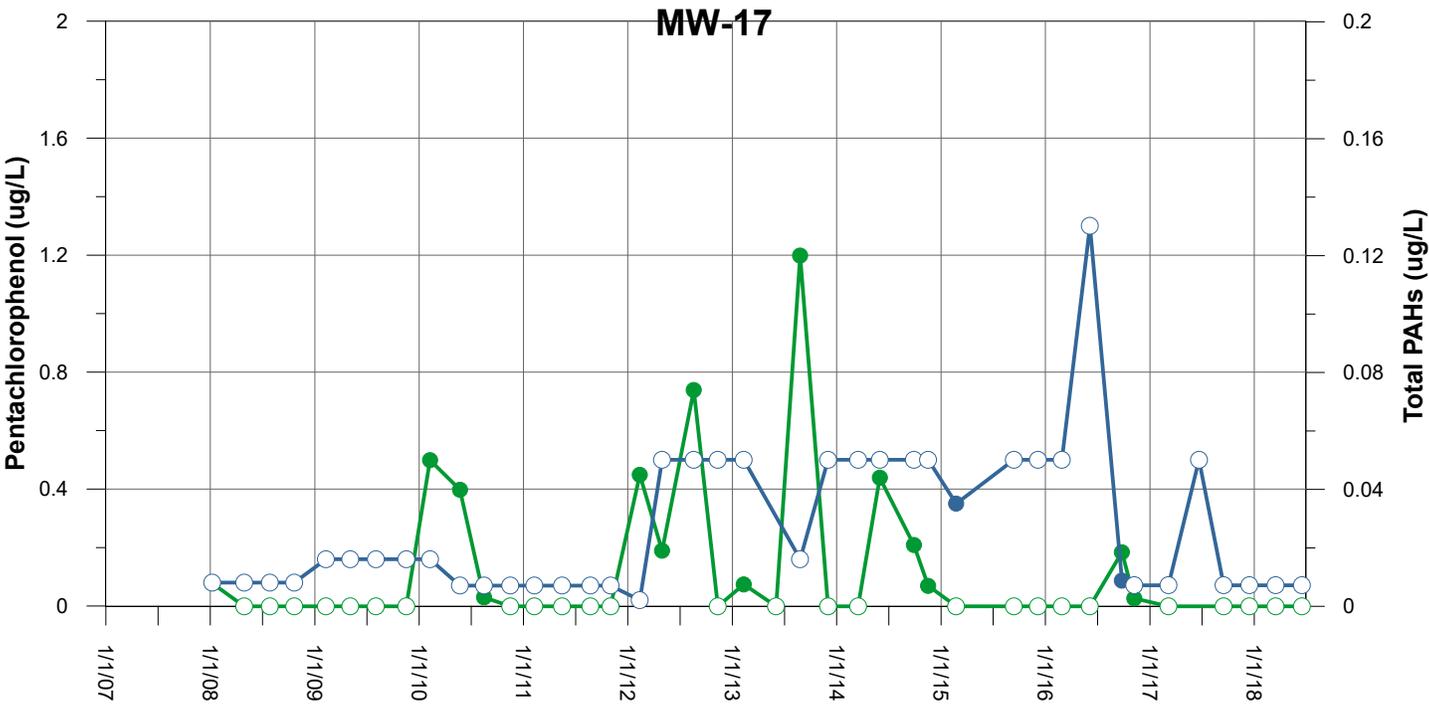
**FIGURE C-3**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in HCMW-7 and MW-15**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-16



### MW-17



**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

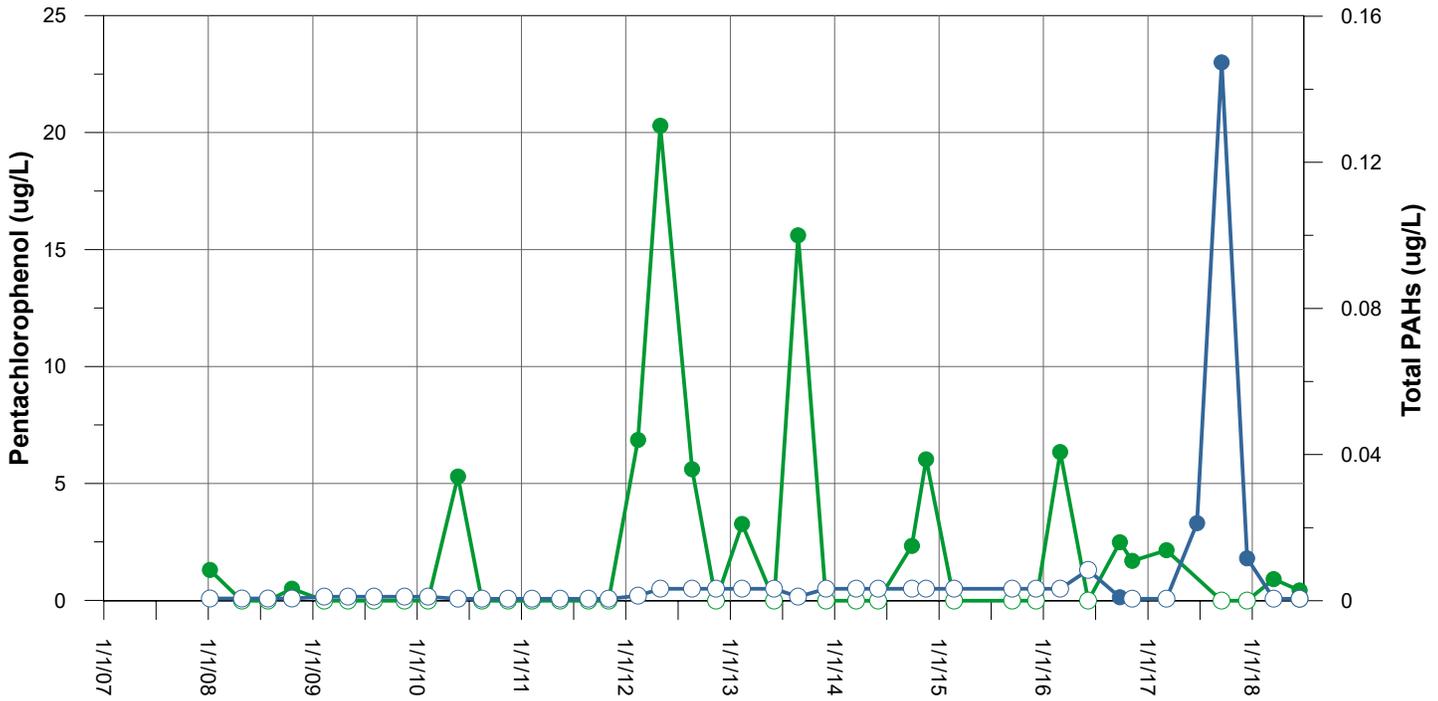
**Notes:**

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

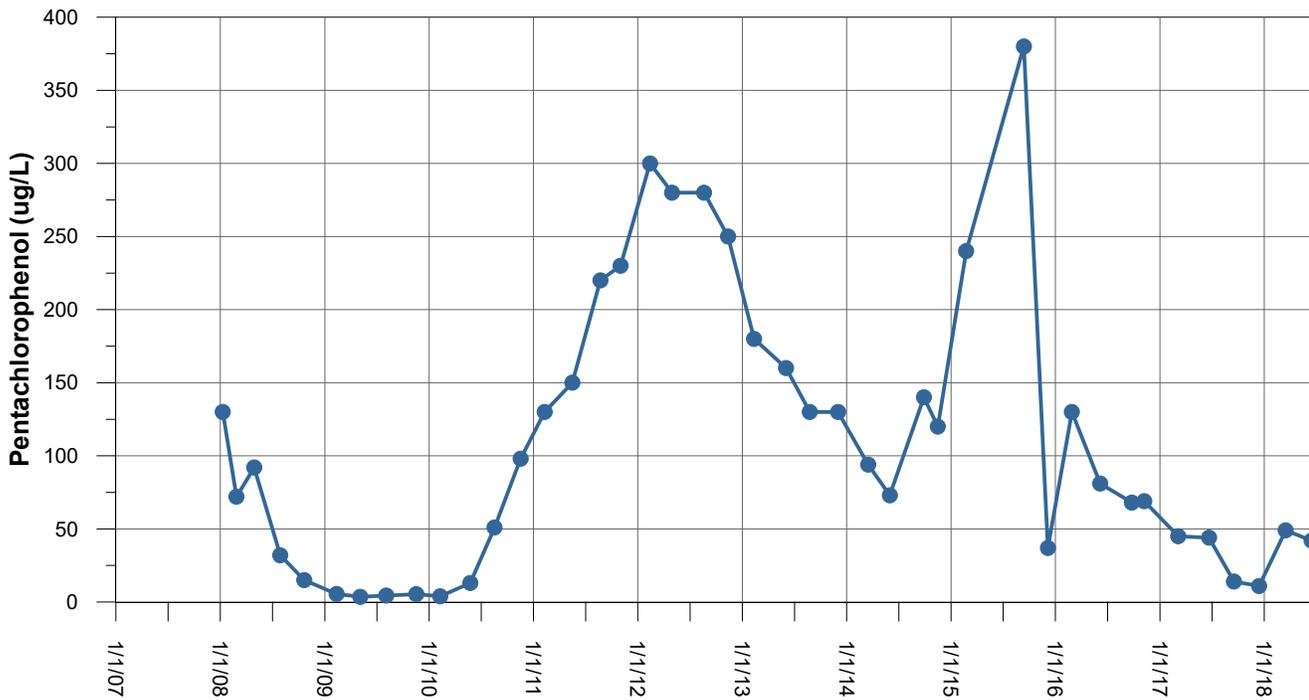
**FIGURE C-4**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-16 and MW-17**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-18



### MW-22



PAHs not analyzed in MW-22.

#### Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

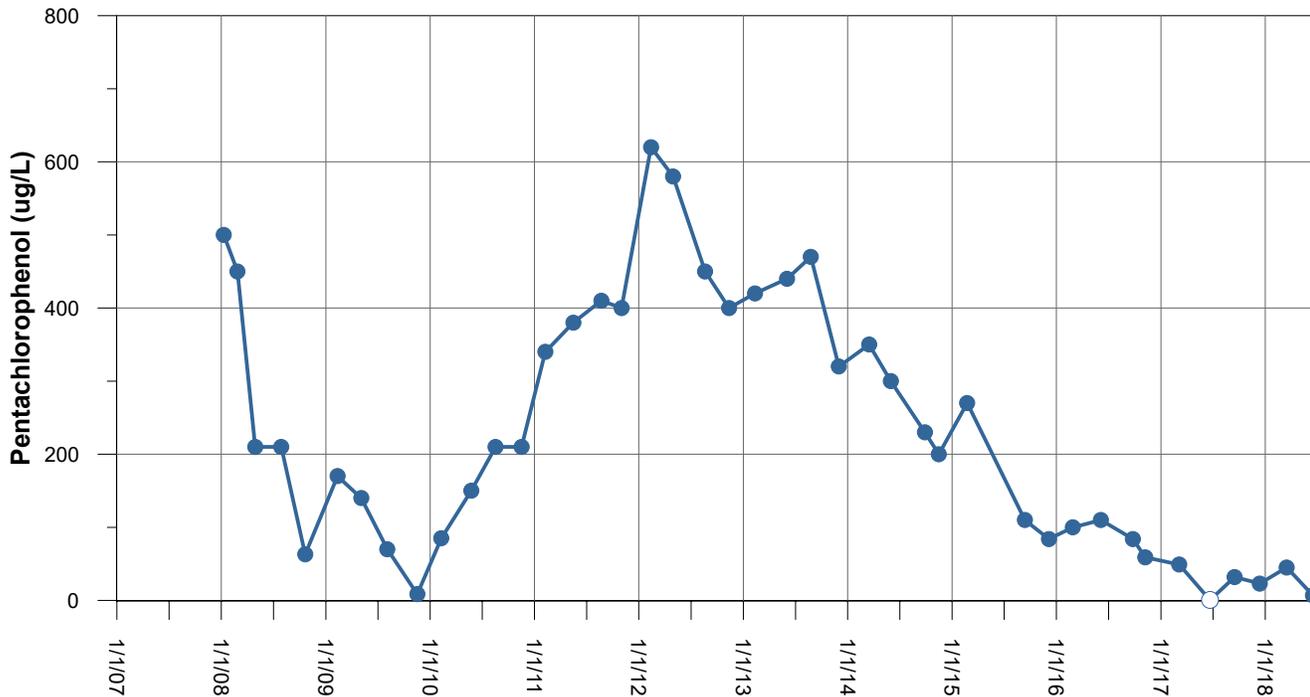
#### Notes:

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

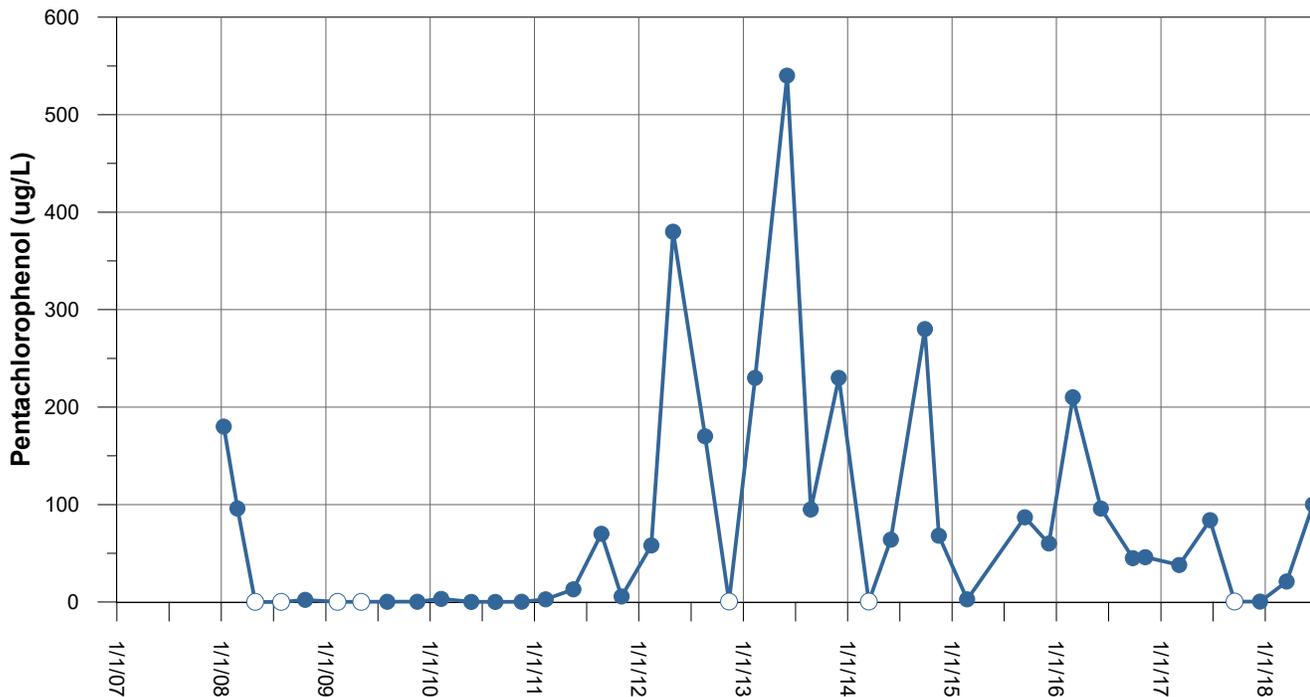
**FIGURE C-5**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-18 and MW-22**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-23



### MW-24



**Legend:**

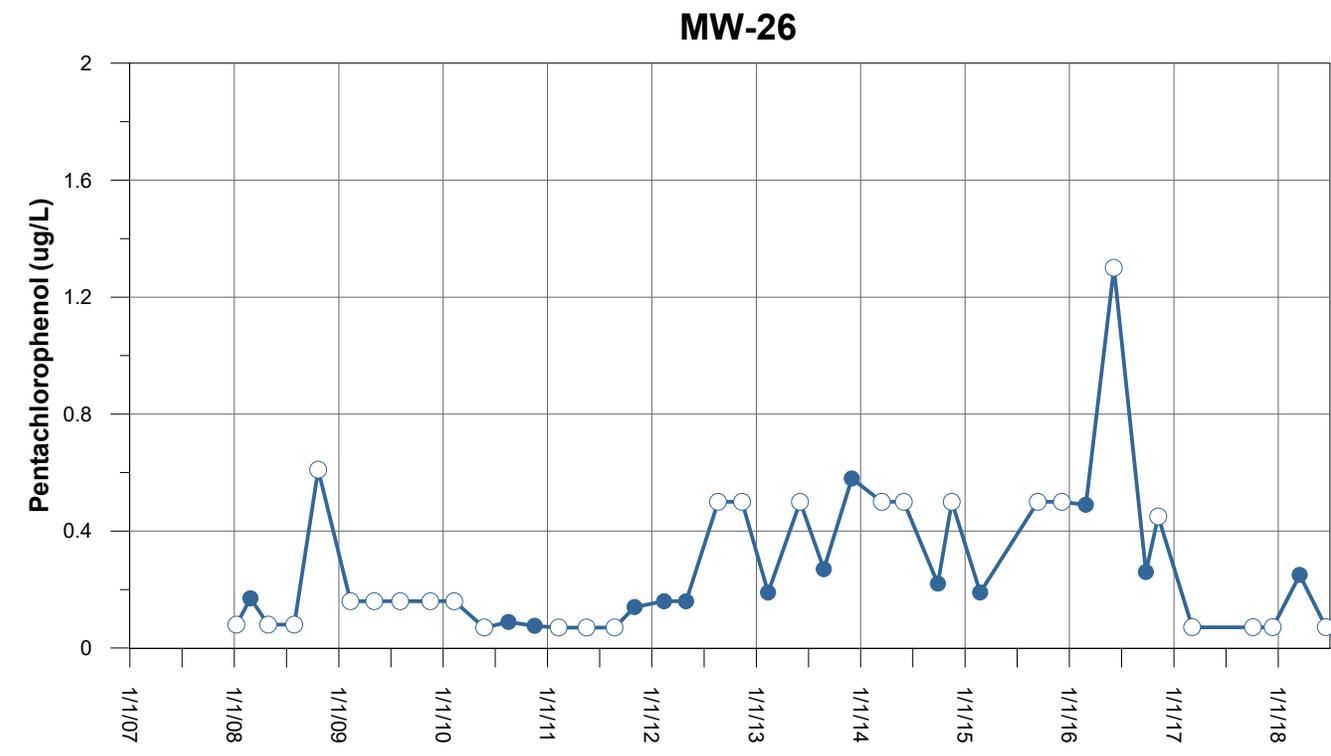
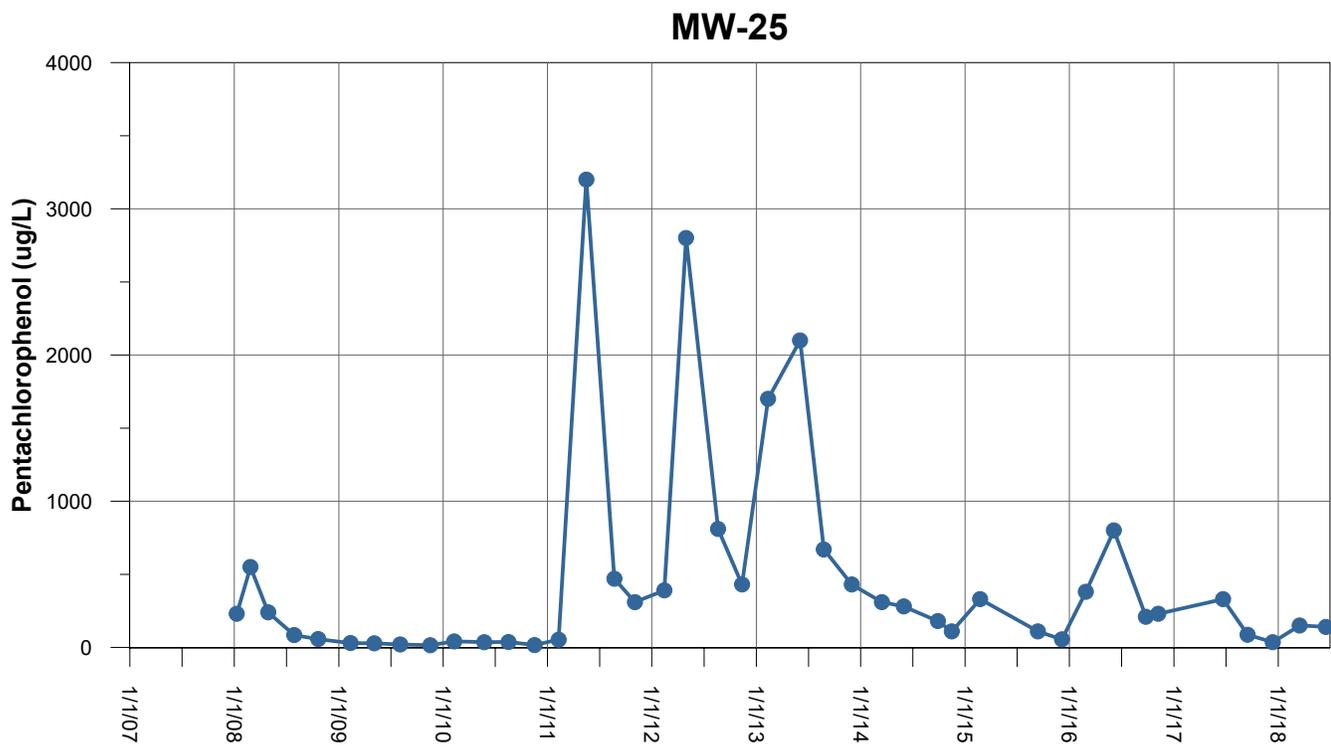
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

**Notes:**

ug/L = microgram per liter

**FIGURE C-6**  
**Pentachlorophenol Groundwater Concentrations in MW-23 and MW-24**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington





**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

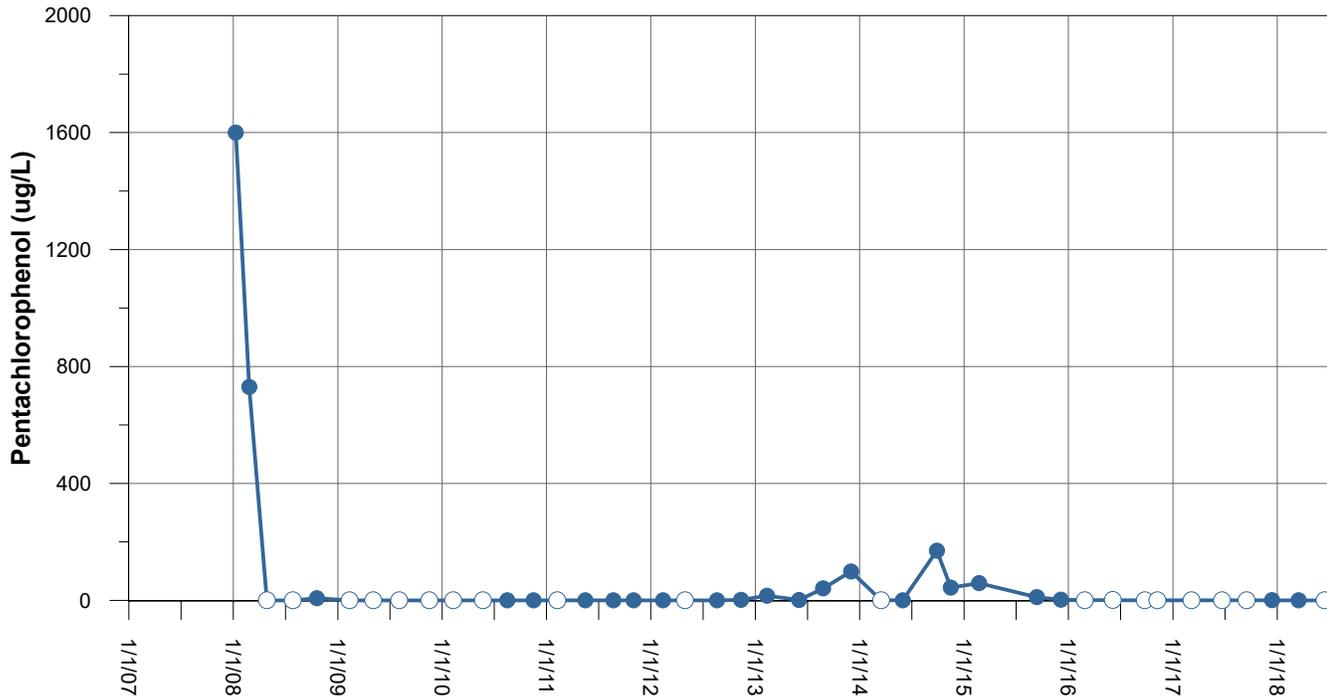
**Notes:**  
ug/L = microgram per liter

**FIGURE C-7**  
**Pentachlorophenol Groundwater Concentrations in MW-25 and MW-26**  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington



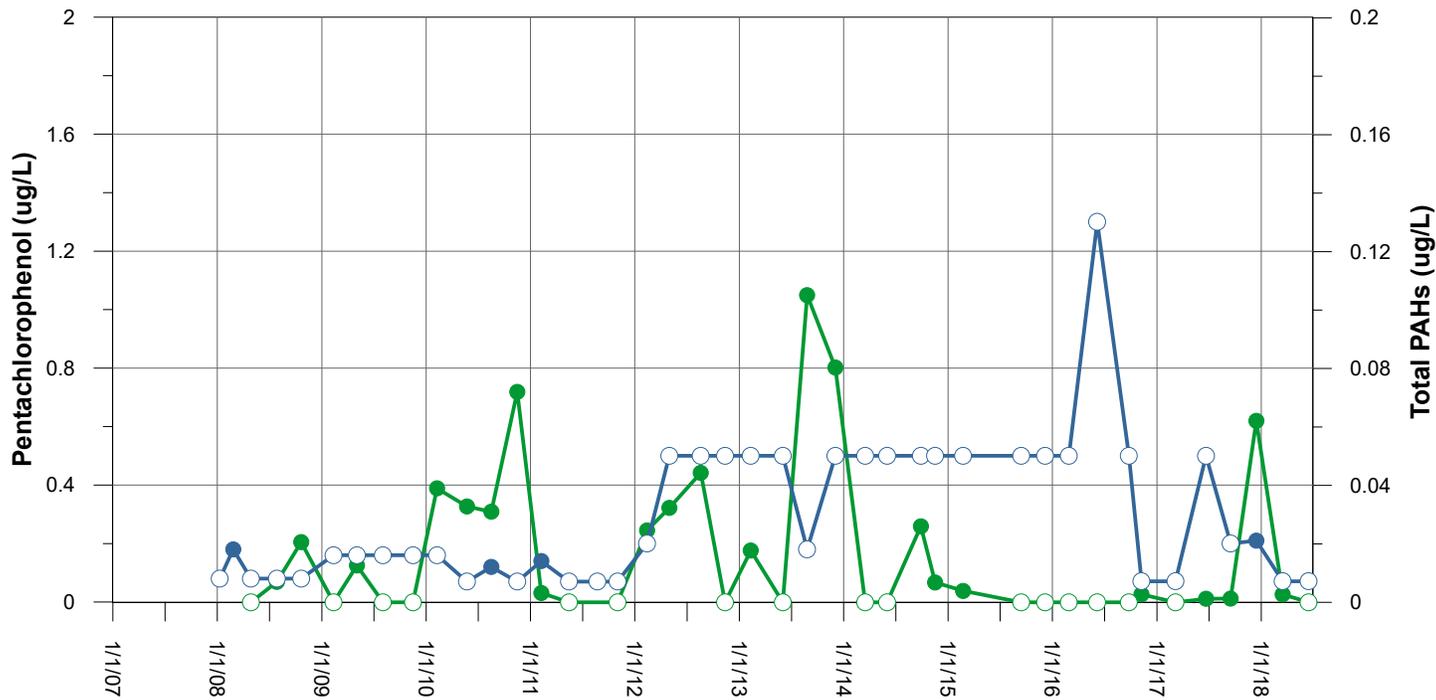


### MW-29



PAHs not analyzed in MW-29.

### MW-30



**Legend:**

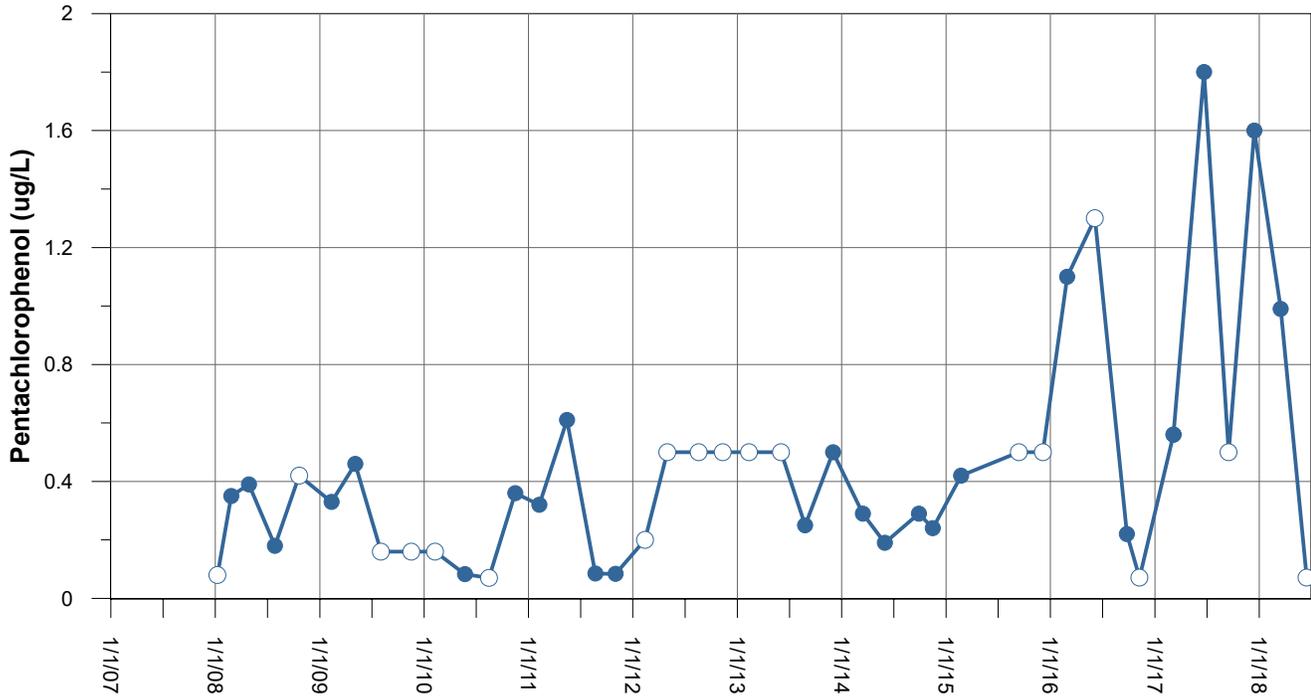
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

**Notes:** ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

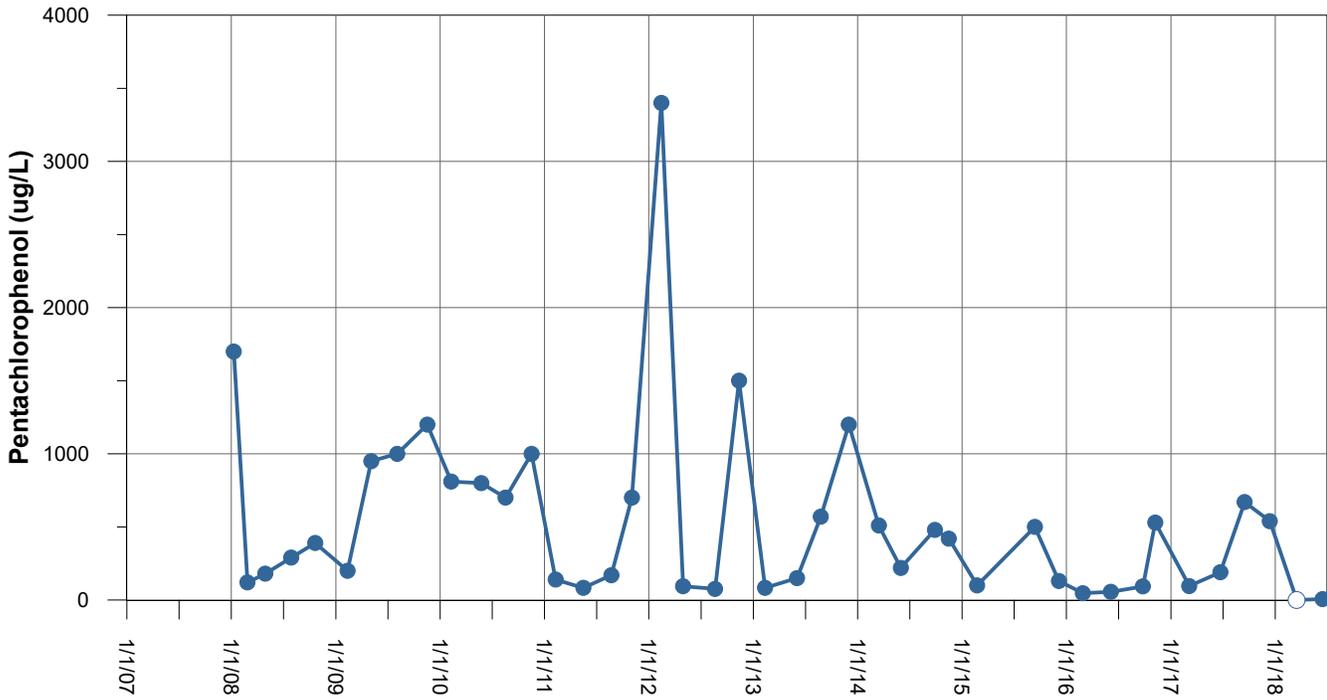
**FIGURE C-9**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-29 and MW-30**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



MW-31



MW-32



**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

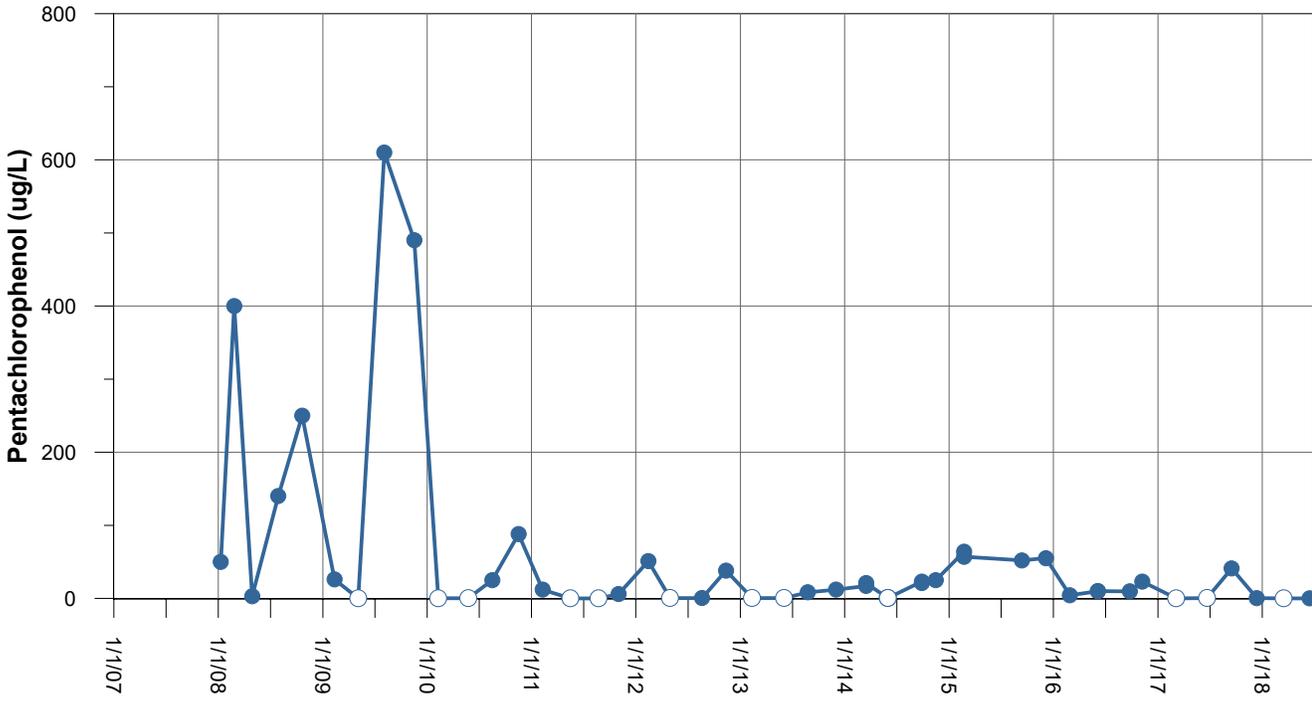
**Notes:**

ug/L = microgram per liter

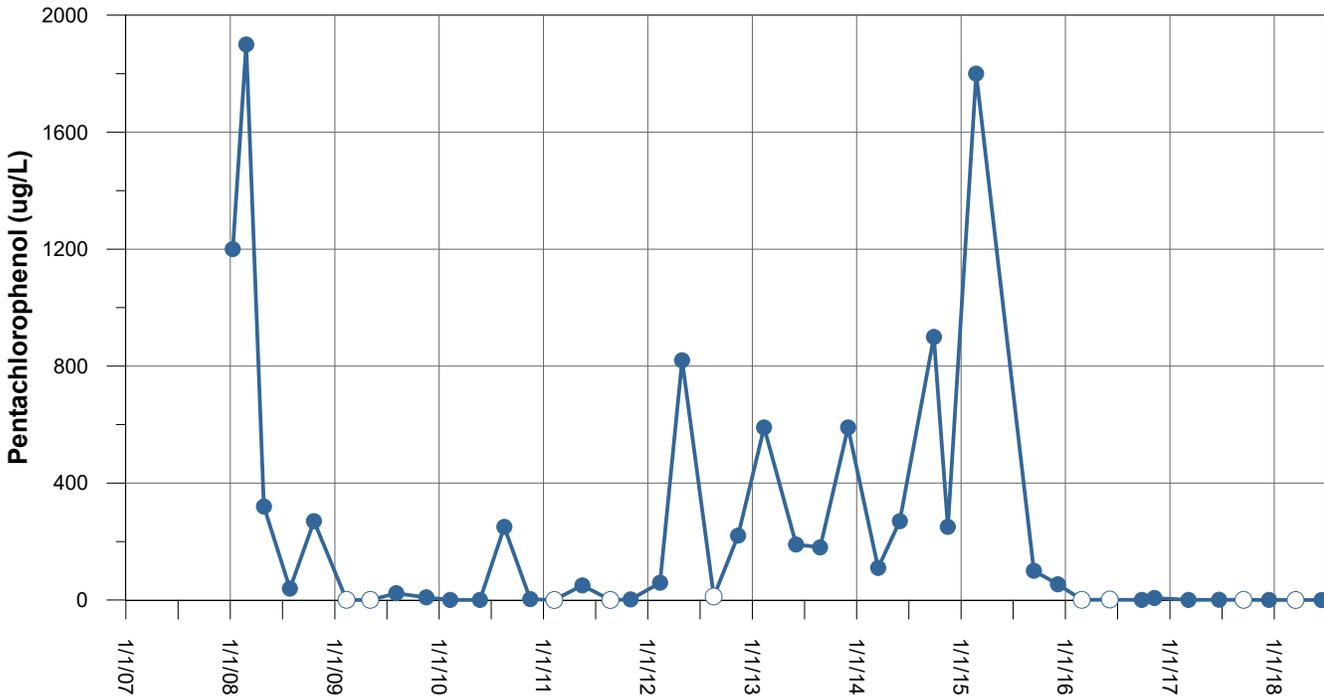
**FIGURE C-10**  
**Pentachlorophenol Groundwater**  
**Concentrations in MW-31 and MW-32**  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington



### MW-33



### MW-34



#### Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

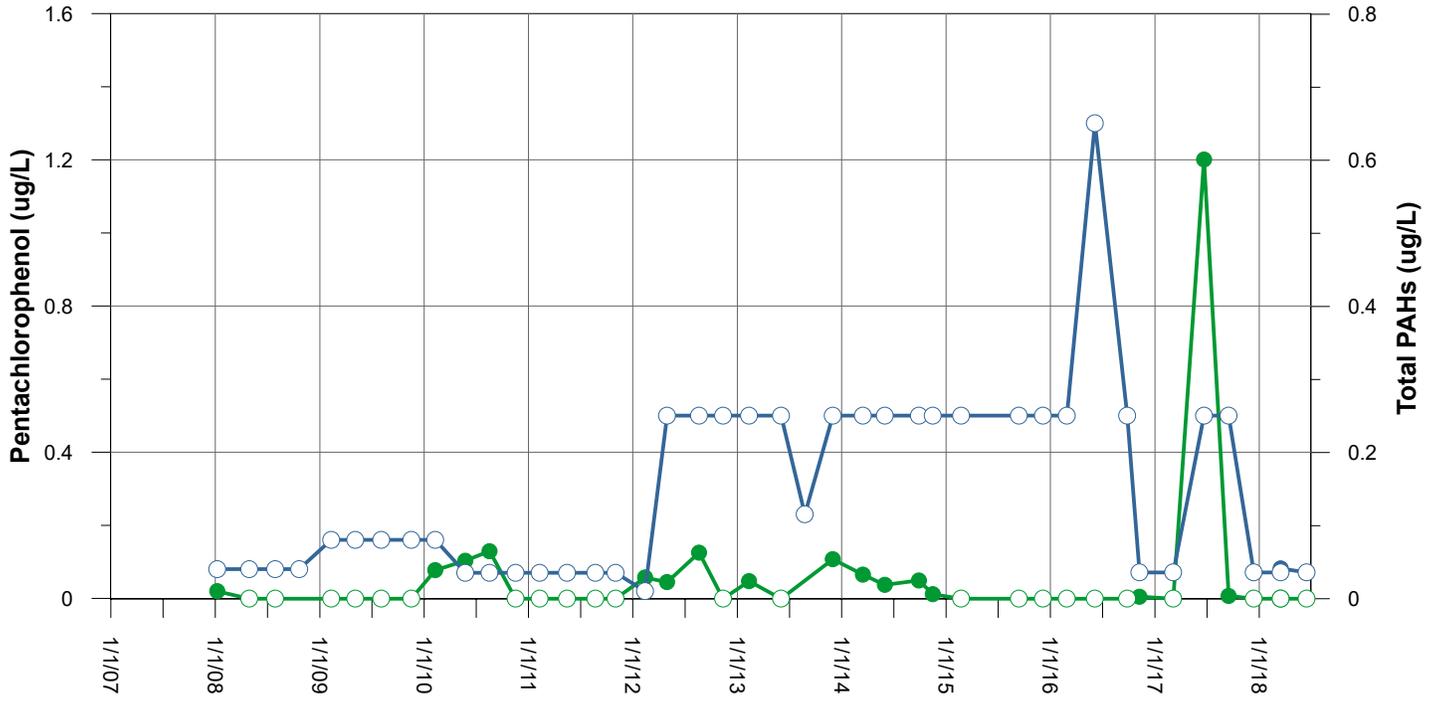
#### Notes:

ug/L = microgram per liter

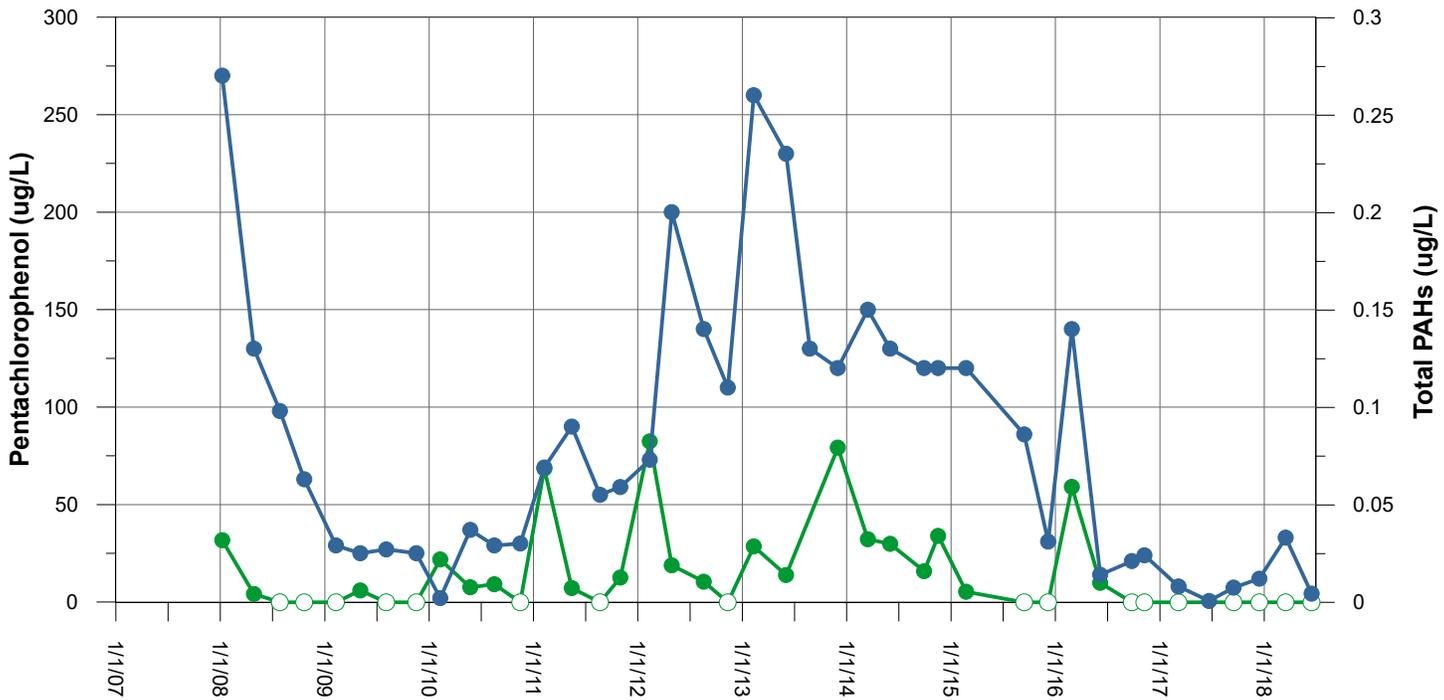
**FIGURE C-11**  
**Pentachlorophenol Groundwater**  
**Concentrations in MW-33 and MW-34**  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington



### MW-35



### MW-36



**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

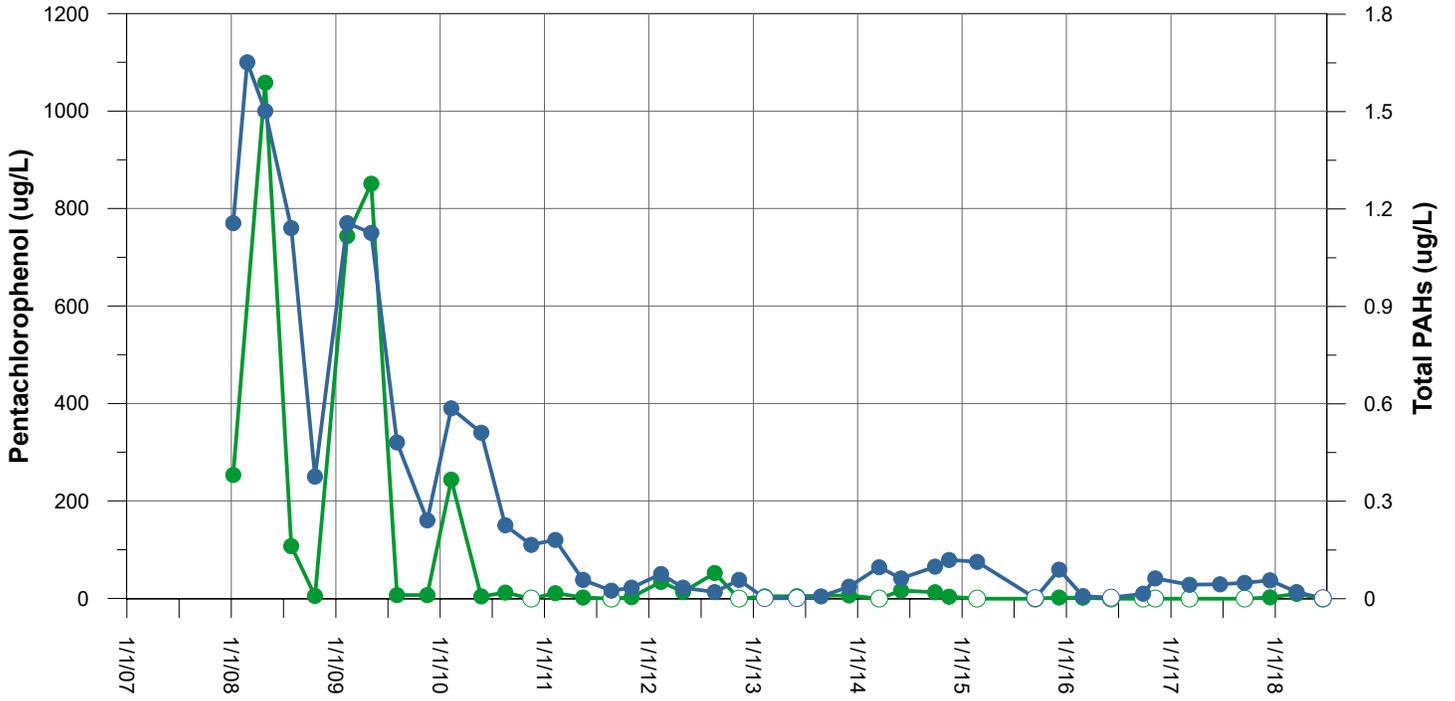
**Notes:**

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

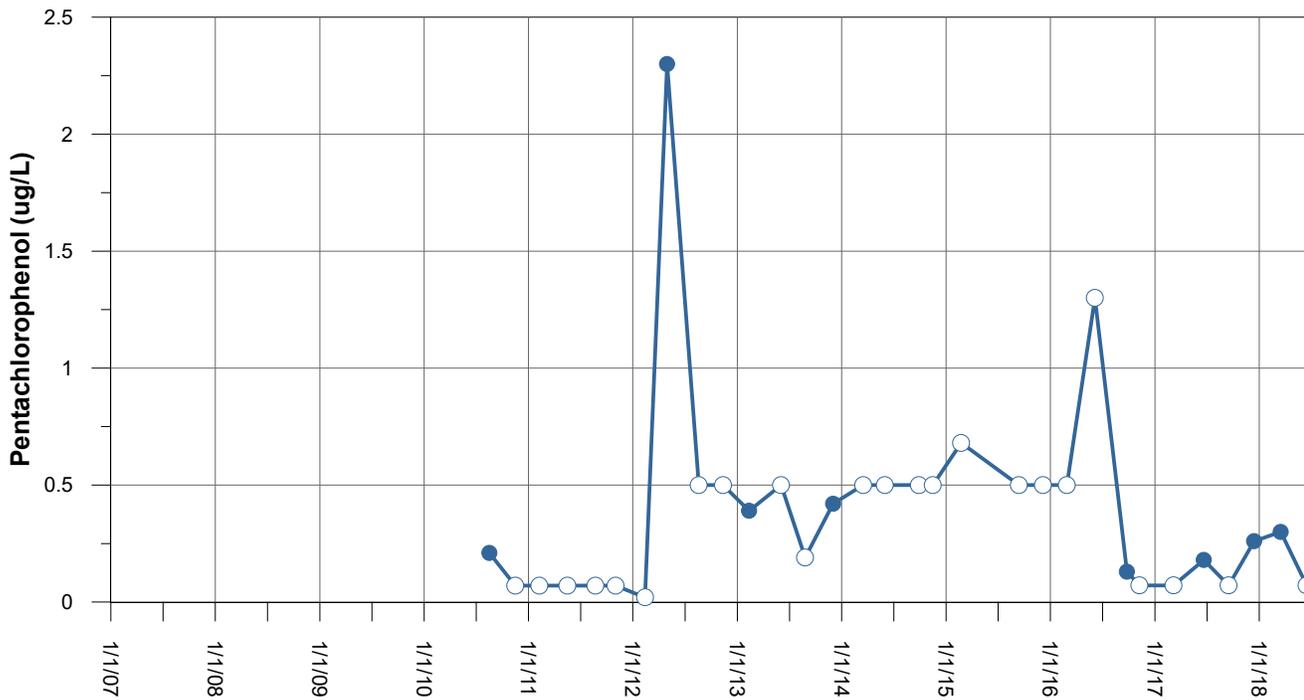
**FIGURE C-12**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-35 and MW-36**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-37



### MW-38



PAHs not analyzed in MW-38.

**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

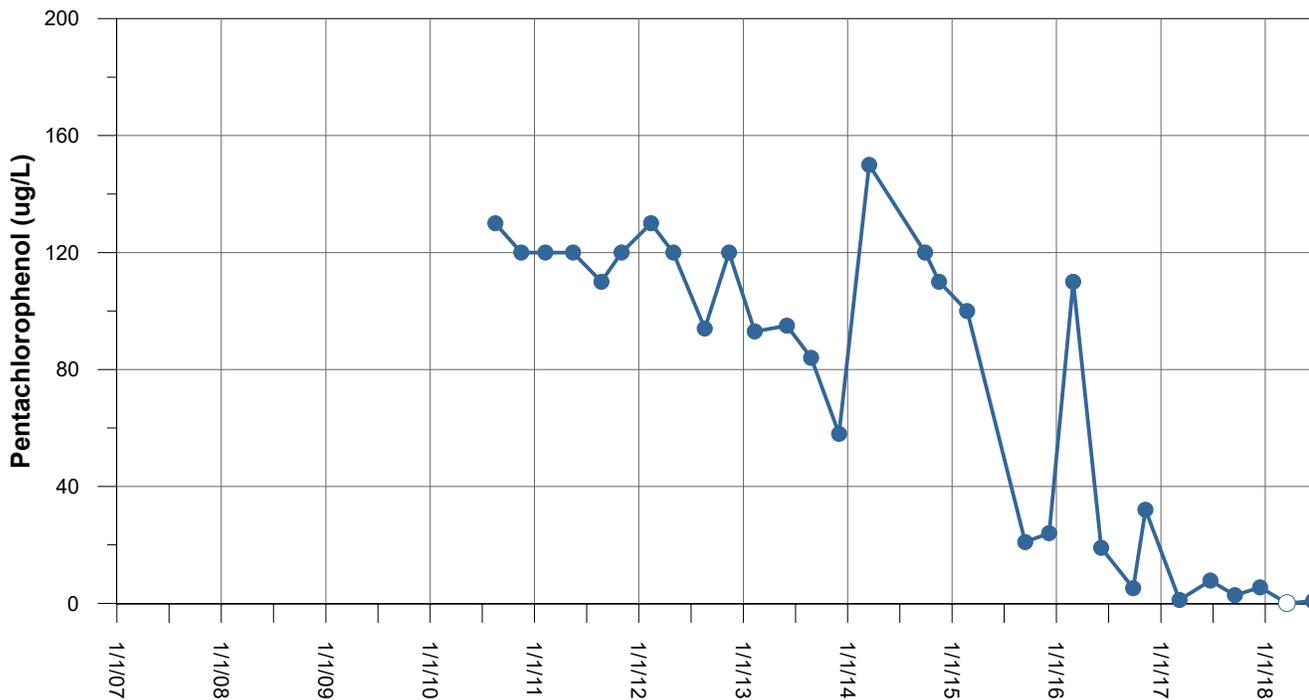
**Notes:**

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

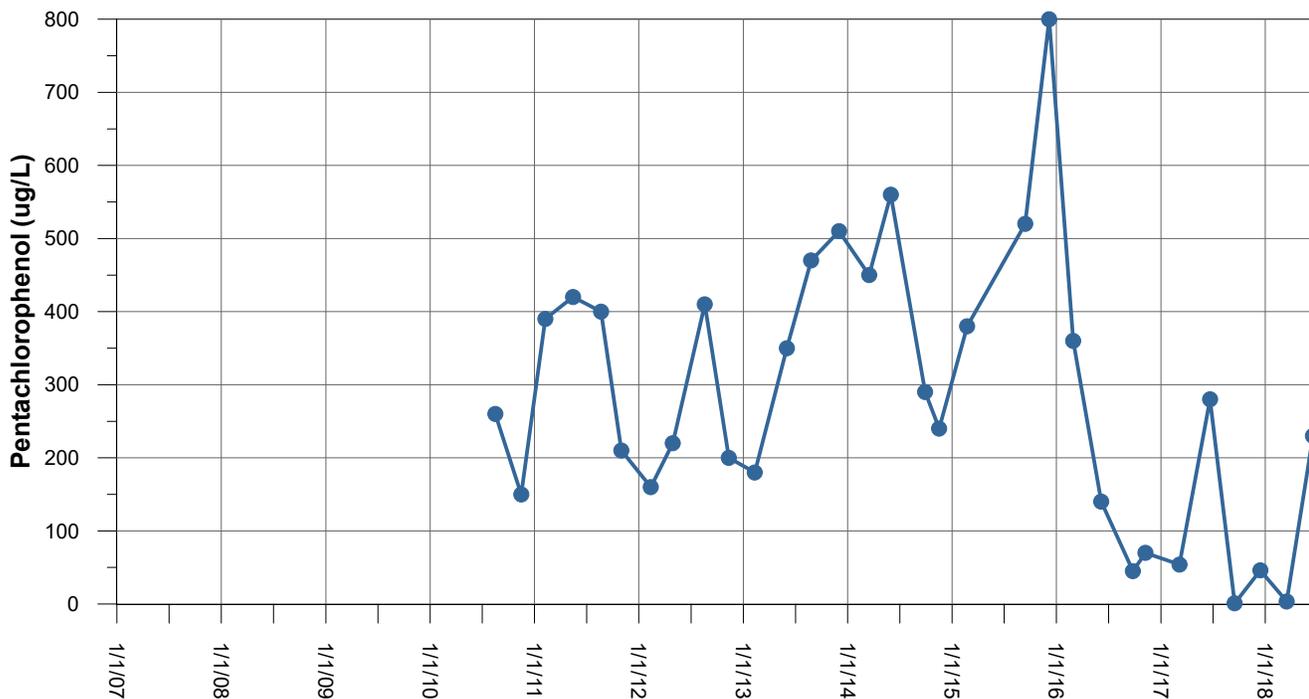
**FIGURE C-13**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-37 and MW-38**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-39



### MW-40



#### Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

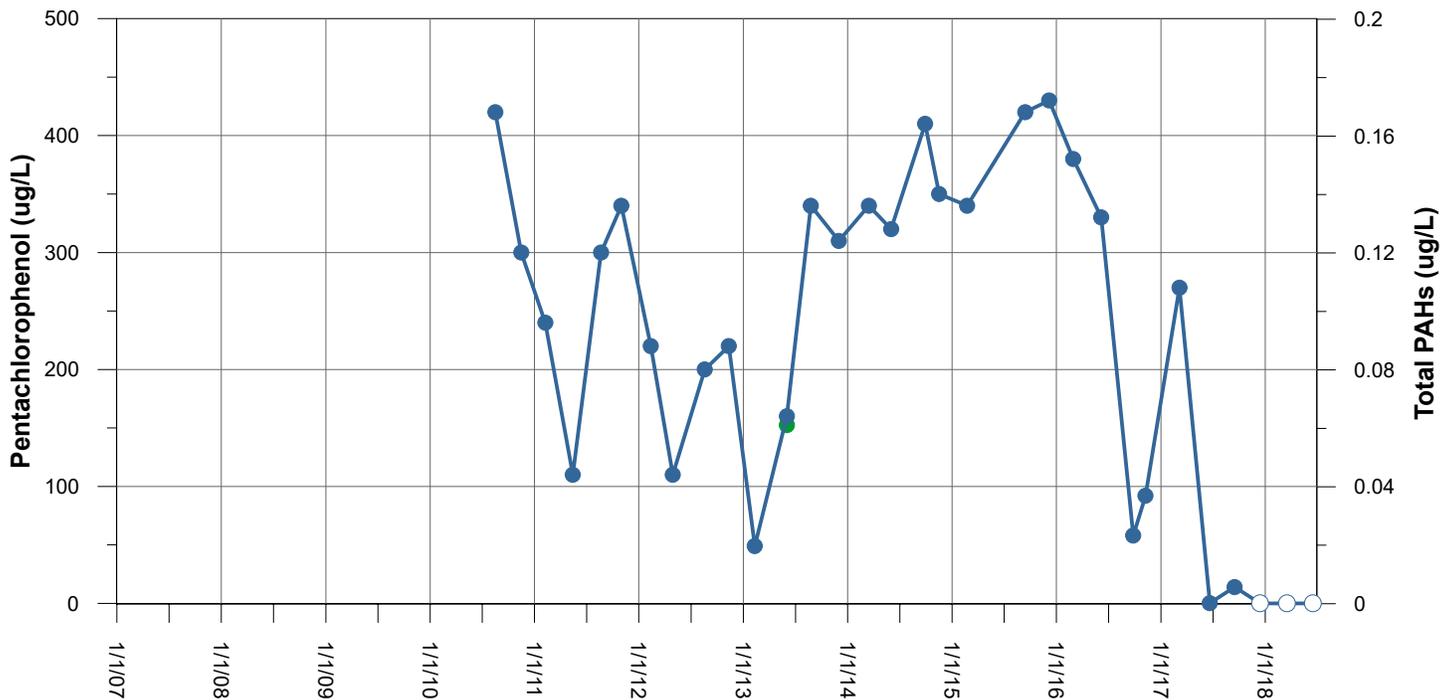
#### Notes:

ug/L = microgram per liter

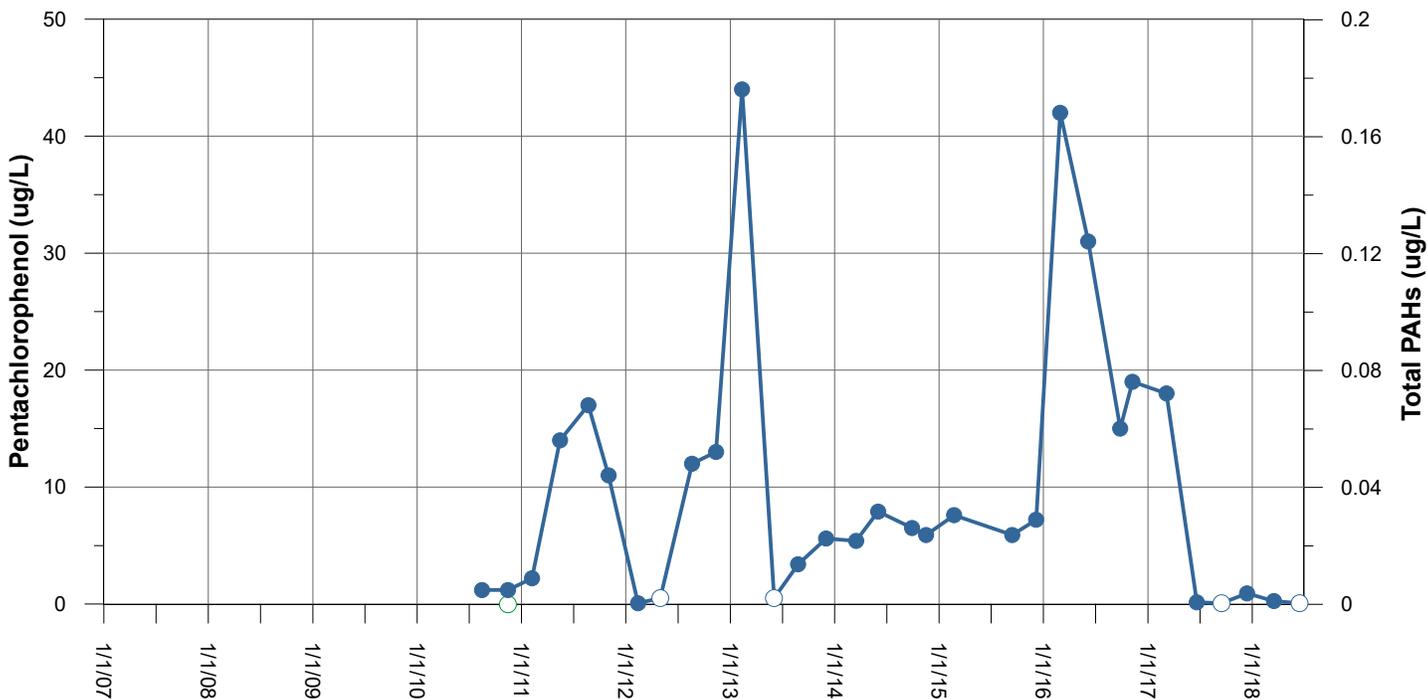
**FIGURE C-14**  
**Pentachlorophenol Groundwater**  
**Concentrations in MW-39 and MW-40**  
Former J.H. Baxter Wood Treating Facility  
Arlington, Washington



### MW-41



### MW-42



**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values
- Total PAHs Detected Values
- Total PAHs Non-Detected Values

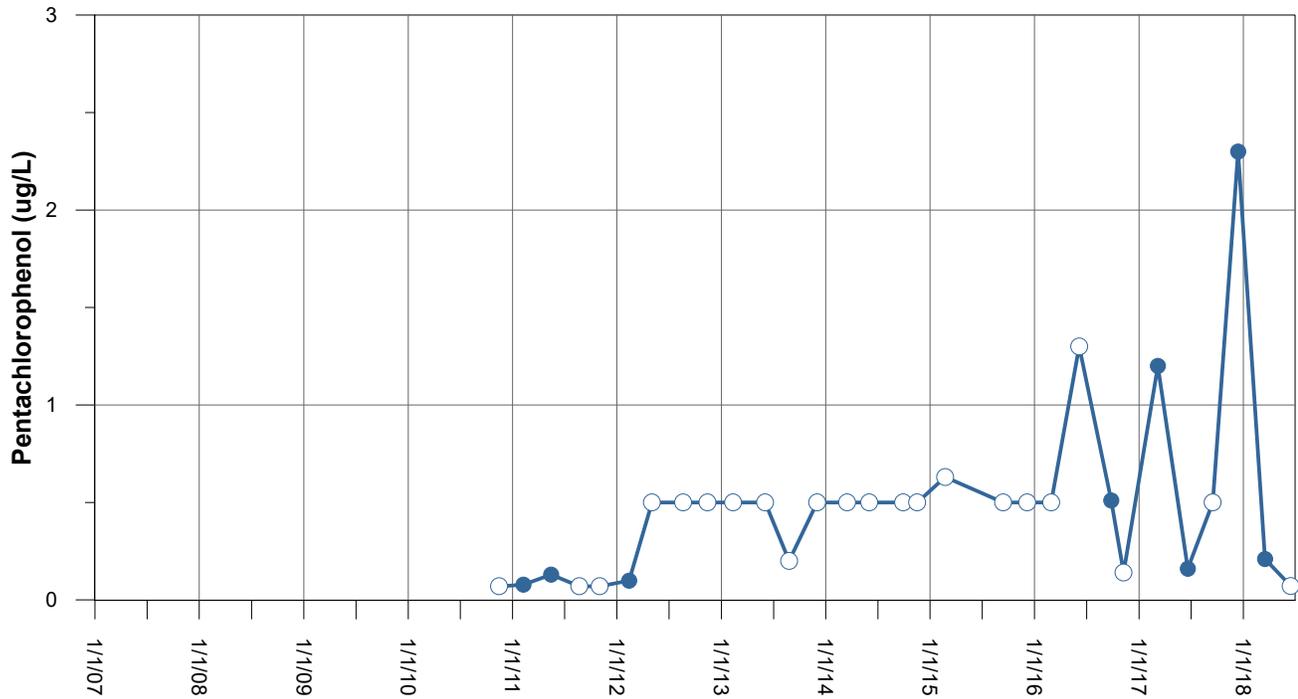
**Notes:**

ug/L = microgram per liter  
 Total polycyclic aromatic hydrocarbons (PAHs) equals the sum of detected analytes (ND = 0).

**FIGURE C-15**  
**Pentachlorophenol and Total PAHs Groundwater Concentrations in MW-41 and MW-42**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington



### MW-43



#### Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

### Pentachlorophenol Groundwater Concentrations in MW-43

Former J.H. Baxter Wood Treating Facility  
Arlington, Washington

### FIGURE C-16

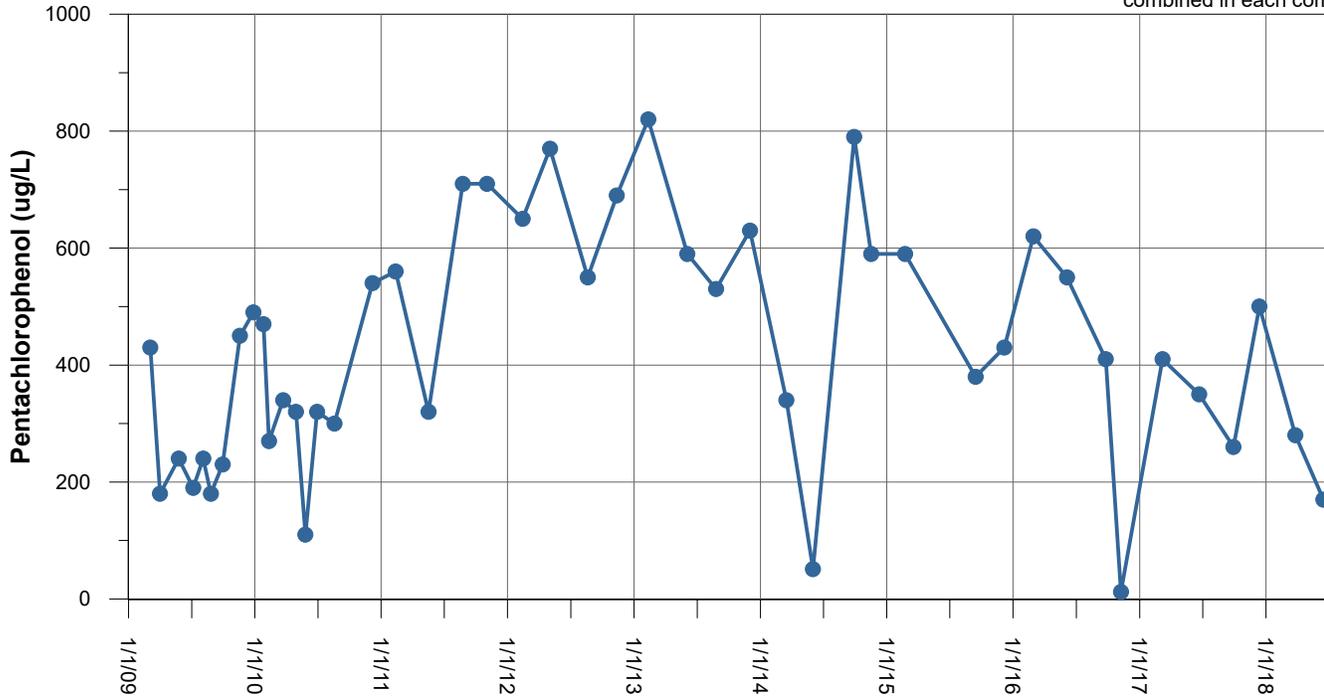
#### Notes:

ug/L = microgram per liter

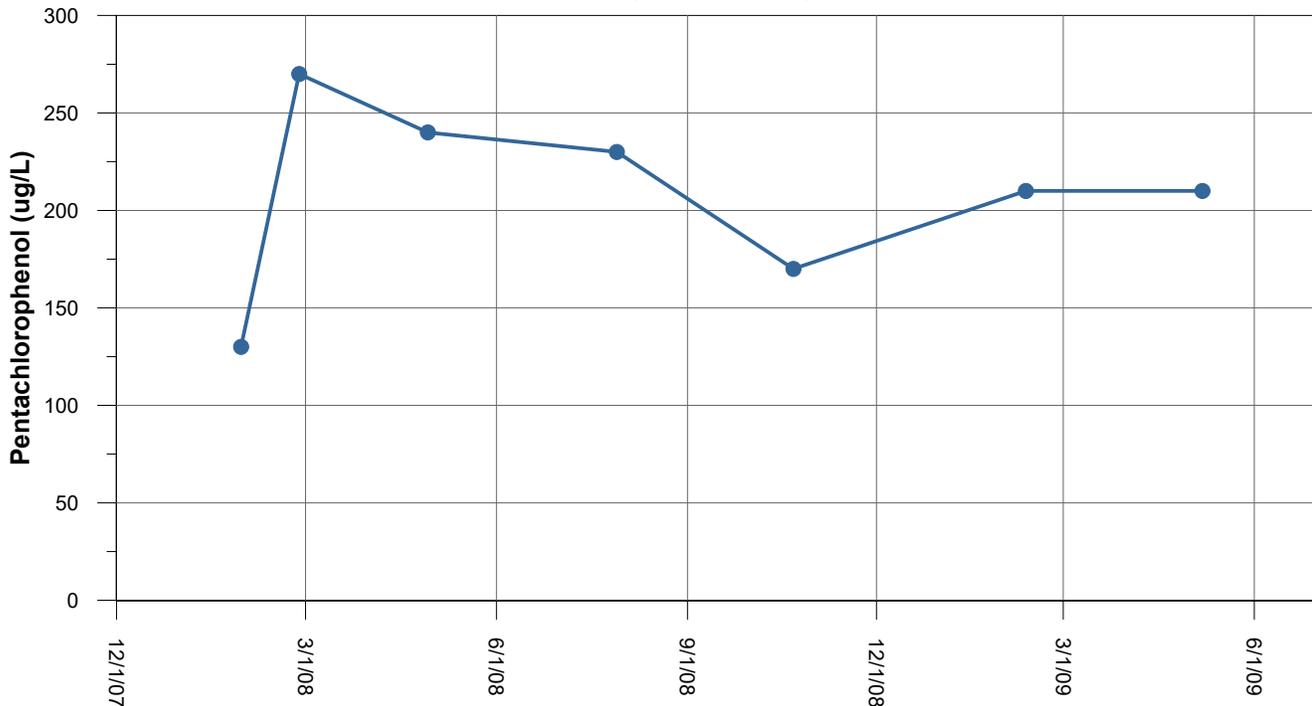


**Extraction Well Composites**  
**EPA Method 8270D and 8151M**  
**(2009 - current)**

See Table 4C for extraction wells combined in each composite sample.



**Extraction Well Composites (EW-1 through EW-7)**  
**EPA Method 8151**  
**(2008 - 2009)**



**Legend:**

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

**Pentachlorophenol Groundwater Concentrations in Extraction Well Composite Samples by EPA Method 8270D and 8151**

Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

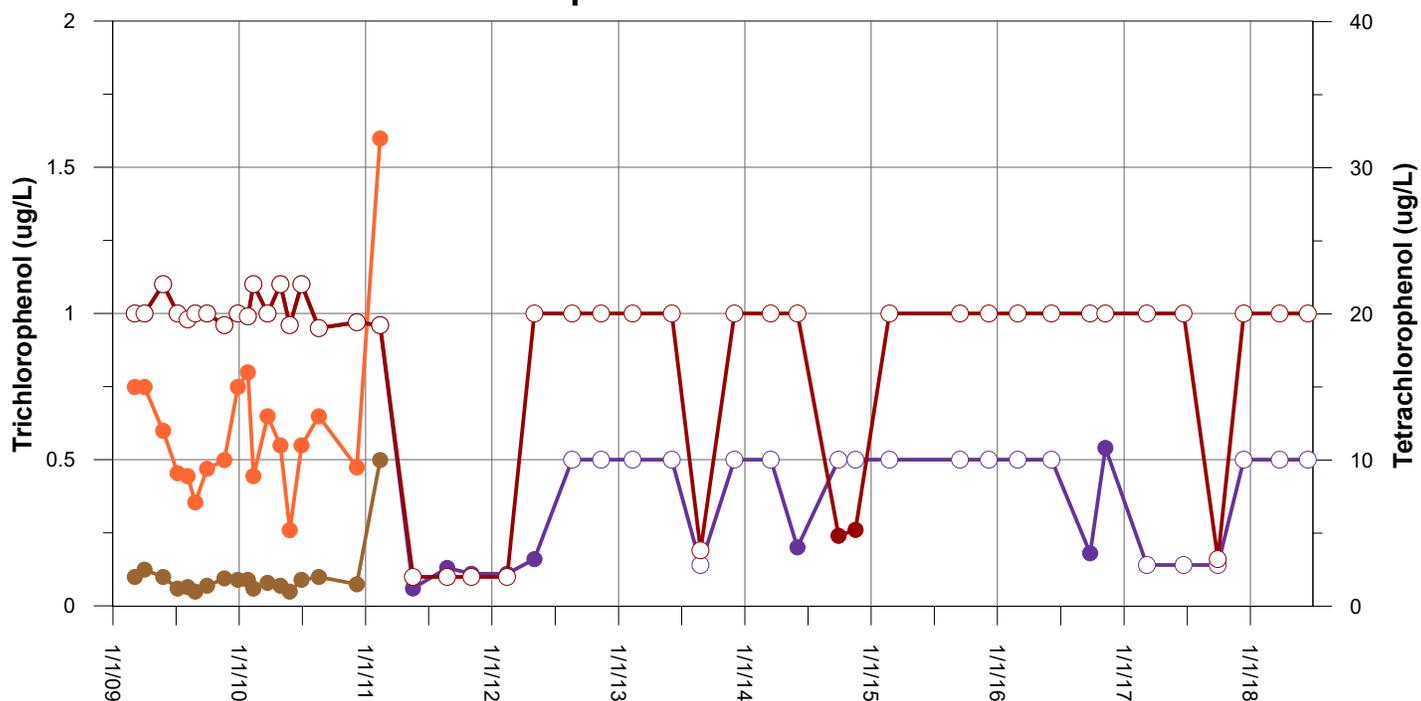
**FIGURE C-17**

**Notes:**

ug/L = microgram per liter



## Extraction Well Composites Pentachlorophenol Breakdown Products



**Legend:**

- 2,4,5-Trichlorophenol Detected Values
- 2,4,5-Trichlorophenol Non-Detected Values
- 2,4,6-Trichlorophenol Detected Values
- 2,4,6-Trichlorophenol Non-Detected Values
- 2,3,4,6-Tetrachlorophenol Detected Values
- 2,3,5,6-Tetrachlorophenol Detected Values

**FIGURE C-18**  
**Pentachlorophenol Breakdown Products Groundwater**  
**Concentrations in Extraction Well Composite Samples**  
 Former J.H. Baxter Wood Treating Facility  
 Arlington, Washington

**Notes:**

ug/L = microgram per liter  
 Analyzed by EPA Method 8270D and 8151M  
 See Table 4C for extraction wells combined  
 in each composite sample



**Appendix D**

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## **Laboratory Data Validation Memorandum**

Site Investigation - Supplemental Groundwater Sampling and Remedial Action

First Quarter 2018 - Pilot Study Performance Monitoring

Former J.H. Baxter & Co. Wood Treating Facility

Arlington, Washington

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**June 2018**

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Table D-2 Field Duplicate Detections  
Table D-3 Qualifiers Added or Modified During Validation

## Acronyms

%D	percent difference
%drift	percent drift
µg/L	microgram per liter
ALS	ALS Environmental
CCV	continuing calibration verification
CLP	Contract Laboratory Program
COC	chain of custody
EPA	U.S. Environmental Protection Agency
GC/MS	gas chromatography/mass spectrometry - gas chromatographer/mass spectrometer
GSI	GSI Water Solutions, Inc.
ICAL	initial calibration
ICV	initial calibration verification
IS	internal standards
ID	identification
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
PAH	polycyclic aromatic hydrocarbon
PCP	pentachlorophenol
QC	quality control
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SADMP	Sampling and Analysis and Data Management Plan
SIM	selective ion monitoring

## 1 Introduction

GSI Water Solutions Inc. (GSI), performed a data validation of the analytical laboratory activities conducted for groundwater samples collected at the former J.H. Baxter & Co. Arlington, Washington, wood-treating facility (the facility) in the first quarter of 2018. Thirty-two groundwater samples (including one duplicate), a composite extraction well sample, and one field blank rinsate sample were collected on March 16<sup>th</sup> – 18<sup>th</sup>, as part of the facility's *Remedial Action Pilot Study Performance Monitoring Plan* (Baxter, 2007). All samples were submitted to ALS Environmental (ALS) located in Kelso, Washington, where they were analyzed for pentachlorophenol (PCP) and/or breakdown products by Modified U.S. Environmental Protection Agency (EPA) Method 8151A and, in select samples, for polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270D-selective ion monitoring (SIM). Table D-1 provides a list of the field and laboratory sample identifications (ID), sample collection dates, and individual sample analyses conducted for the samples reviewed in this memorandum.

## 2 Data Validation Methodology

In agreement with Appendix B (Sampling and Analysis Data Management Plan [SADMP], Revision 2) of the Site Investigation Work Plan, this data validation memorandum was prepared in general accordance with the following documents:

- Baxter. 2002. Sampling and Analysis and Data Management Plan for the Site Investigation Work Plan J.H. Baxter Arlington Facility (SADMP).
- EPA. 1999. USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, EPA-540-R-99-008. October 1999.
- EPA. 2002. Guidance on Environmental Data Verification and Data Validation. US EPA QA/G-8. November 2002.
- EPA. 2014. EPA CLP National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002. August 2014.

The EPA CLP guidelines have been modified for this data review where they differ from method-specific quality control (QC) requirements. In general, the data validation review outline provided in Section D2 of the SADMP was followed, and laboratory analytical reports and supporting documentation were reviewed to assess the following elements:

- Data package and electronic data deliverable completeness
- Chain-of-custody (COC) – completeness and continuous custody
- Proper sample preservation and holding times achieved
- Instrument tuning, calibration, and performance criteria achieved
- Field and laboratory blanks conducted at proper frequency and free of contamination
- Field and laboratory duplicates, matrix spikes (MS)/matrix spike duplicates (MSD), and laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) analyzed at proper frequency and control limits achieved

- Surrogate compound and internal standard analyses performed and recoveries within accuracy control limits
- Required detection limits achieved

Although this data validation memorandum includes a review of the QC results provided in laboratory analytical reports and reported on QC summary forms, it does not include a review of the raw analytical data to confirm reported concentrations and analyte identification.

### **3 Qualifiers and Reason Codes Applied During Validation**

Qualifier flags may be applied to data during the validation process if it is determined that certain QC elements have not been achieved.

#### **3.1 Qualifiers**

Data qualifiers and definitions are consistent with the EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review* and previous data validation memoranda.

Specifically, the qualifiers that may be applied during this validation process are as follows:

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ The analysis indicates the presence of an analyte that has been “tentatively identified” or “presumptively” as present, and the associated numerical value is the estimated concentration in the sample.
- R The sample result is rejected because of serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may be inaccurate or imprecise.

#### **3.2 Reason Codes**

Reason codes are applied with qualifiers to identify the data validator’s justification for assigning a particular qualifier flag. The following reason codes are consistent with laboratory data qualifiers and previous data validation review memoranda.

- DL The analyte was detected at a concentration greater than the method detection limit (MDL), but lower than the reporting limit (RL).
- LC Low continuing calibration verification (CCV) recovery. Analytical result may be biased low.
- HC High CCV recovery. Analytical result may be biased high.
- HT The sample holding time (extraction or analysis) was exceeded.
- ID The sample identification/sample location cannot be verified.
- MB The analyte was detected in the sample and the associated laboratory/method blank. The concentration detected in the sample was less than 5 times the concentration detected in the blank.
- MI Matrix interference prevented adequate resolution of the target compound at the normal limit.
- RB The analyte was detected in the sample and the associated rinsate blank. The concentration detected in the sample was less than 5 times the concentration detected in the blank.
- PC Sample detections may be the result of potential contamination in the collection or analytical process or may be indicative of high bias.
- PD The relative percent difference (RPD) between results from primary and field duplicate sample is greater than 40 percent.
- SC The RPD between results from the primary and confirmation columns is greater than 40 percent.
- SR The surrogate recovery was outside of control criteria.

## 4 Validation of Custody, Preservation, and Completeness

Sample custody was maintained as required from sample collection to receipt at ALS, and sample chain of custody (COC) papers were properly filled out. All sample coolers arrived at the laboratory below the EPA-recommended maximum temperature of 6°C, and all samples were immediately stored in a 4°C refrigerator upon receipt at the laboratory.

A few discrepancies were observed in the custody, preservation, and completeness process. ALS notes that sample labels did not agree with the custody papers. No samples were labeled field blank rinsate, despite the COC listing two were present. Instead, the lab received two samples labeled Equipment Blank that didn't appear on the COC. These were treated as the field blank rinsate samples. Additionally, the lab received a PAH bottle for MW-44, despite it not being

listed on the COC. MW-44 is the field duplicate sample for MW-35 this sampling event, and MW-35 had both PCP and PAH collected, so it is likely the PAH for MW-44 was inadvertently left off the COC when it should have been added.

## **5 Validation of Laboratory Analytical Data**

Thirty-four samples were analyzed for PCP and/or breakdown products via EPA Method 8151A Modified, and 14 of the 34 samples were analyzed for PAHs (including the MW-44 sample that was left off the COC) via EPA Method 8270D-SIM. Findings from the review of laboratory data generated during the two analytical method analyses are presented below.

### **5.1 Pentachlorophenol and Breakdown Products by EPA Method 8151A Modified**

#### **5.1.1 Holding Times**

In accordance with the SADMP-specified holding times, samples analyzed for PCP and/or breakdown products were extracted within 7 days from the time of collection, and sample extracts were analyzed within 40 days from the time of extraction for all samples.

#### **5.1.2 Instrument Calibration**

##### **5.1.2.1 Initial Calibration**

Initial calibration (ICAL) criteria were achieved. Relative standard deviations (RSD) were less than the SADMP-specified maximum of 25 percent.

##### **5.1.2.2 Initial Calibration Verification**

Initial calibration verifications (ICV) or second source calibration verification analyte recoveries associated with the PCP analysis were within the SADMP-specified limit of  $\pm 20$  percent difference (%D) or percent drift (%drift) of the ICAL. The %D is used when performing average response factor model calibration and the %drift is used when calibrating using a regression fit model.

##### **5.1.2.3 Continuing Calibration Verification**

Continuing calibration verification (CCV) recoveries associated with the PCP analysis were within the control criteria limit of  $\pm 20$  %D or %drift of the initial calibration with the following exception:

- The primary evaluation criteria were not met on the confirmation column for 2,4,6-Trichlorophenol in CCV 0327F049. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

#### **5.1.3 Blank Analyses**

##### **5.1.3.1 Laboratory/Method Blanks**

Laboratory or method blanks were analyzed at the required frequency of one per extraction batch of 20 or fewer samples. All method blanks were free of target analytes.

### **5.1.3.2 Field Rinsate Blanks**

Pentachlorophenol was not detected in the field rinsate blank.

### **5.1.4 Surrogate Analysis**

The surrogate compound, 4-bromo-2,6-dichlorophenol, was added to all field samples, blanks, and QC samples during the analysis of PCP. All recoveries of the surrogate compound were within the SADMP-specified and laboratory-specified control limits.

### **5.1.5 Laboratory Control Sample Analyses**

ALS reported LC samples at the required frequency of one per extraction batch of 20 or fewer samples. All LC recovery percentages were within control limits.

### **5.1.6 Matrix Spike/Matrix Spike Duplicate Analyses**

MS and MSD samples were processed from samples MW-35, EW Composite, and a laboratory batch QC sample. Recovery percentages were within laboratory control limits for MS sample analytes with a few exceptions:

- ALS reports that the control criteria for matrix spike recovery of PCP for sample Batch QC and sample EW Composite were not applicable because the analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.
- The matrix spike recovery of Total Tetrachlorophenols in sample EW Composite was below laboratory control limits. However, ALS reports that the recovery value was in the range expected for this procedure, and no further corrective action was taken.

### **5.1.7 Field Duplicate Sample Analyses**

The field duplicate sample, MW-35/MW-44 was processed during the analysis for PCP. Analytical results are summarized in Table D-2. The RPD of 123 percent between the primary and duplicate sample pairs MW-35/MW-44 exceeded SADMP-specified control limits. However, the difference between the detected result in MW-27 and the non-detected concentration in MW-44 is less than the associated reporting limit. Accordingly, the data are not further qualified.

### **5.1.8 Laboratory Reporting Limits**

Reporting limits were met for undiluted samples. However, ALS reports that several samples required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution in the following samples:

- The RLs were adjusted in sample EW Composite, due to elevated levels of target analyte. PCP was detected in both of these samples well above the reporting limit and the data are not further qualified.

### **5.1.9 Confirmation Results**

Analytical results were collected from a primary and confirmation column during the analysis of PCP and associated breakdown products by EPA Method 8151A Modified. The RPDs between

analytical results from the primary and confirmation columns were less than the laboratory-specified 40 percent limit.

### **5.1.10 Data Reporting and Additional Analytical Method Qualifications**

ALS assigned “J” qualifier flags to detected results falling between the MDL and RL.

## **5.2 Polycyclic Aromatic Hydrocarbons by EPA Method 8270D-SIM**

### **5.2.1 Holding Times**

In accordance with the SADMP-specified holding times, samples analyzed for PAHs were extracted within 7 days from the time of collection, and sample extracts were analyzed within 40 days from the time of extraction.

### **5.2.2 Instrument Tuning and Mass Calibration**

The compound decafluorotriphenylphosphine was used to tune the GC/MS before the ICAL and for each 12-hour analytical shift. ALS reports that all relative abundance criteria passed method-specified limits.

### **5.2.3 Initial Calibration**

The average relative response factors (RRF) were greater than the SADMP-specified minimum of 0.1, and RSDs were less than the SADMP-specified (< 25 percent) or laboratory-specified (< 20 percent) control limits.

### **5.2.4 Initial Calibration Verification**

The ICV analyte recoveries associated with the analysis of PAHs were within the laboratory-specified limits of  $\pm 30$  %D of the ICAL.

### **5.2.5 Continuing Calibration Verification**

The CCV recoveries associated with the analysis of PAHs were all within control criteria limits of  $\pm 20$  %D of the ICAL.

#### **5.2.5.1 Laboratory/Method Blanks**

Method blanks were analyzed at the required frequency of 1 per extraction batch of 20 or fewer samples. In this case, the single method blank was analyzed on the same day as its extraction lot—March 29<sup>th</sup>. The method blank was free of target analytes with the following exceptions:

- Naphthalene was detected at a concentration of 0.0020  $\mu\text{g/L}$  in the method blank, KWG1801565-3, a value falling between the MDL and RL. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of naphthalene less than 5 times the method blank concentration were flagged (U-MB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample analysis process. For samples where detections of naphthalene were between the MDL and RL but less than 5 times the method blank concentration, the RL was reported and the sample result was qualified as a non-detect (U-MB). For samples where detections of naphthalene were above the RL but less than 5 times the method blank concentration, the result was reported as is, but

qualified as a non-detect (U-MB). This qualifier was applied to naphthalene detections in samples MW-15, MW-16, MW-17, MW-18, MW-2, MW-30, MW-36, MW-37, MW-3, and BXS-2. Also of note, the Field Blank Rinsate sample exhibited the highest Naphthalene result of all collected samples but was not detected above the MRL.

- Phenanthrene was detected at a concentration of 0.0013 µg/L in the method blank, falling between the MDL and RL. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of phenanthrene less than 5 times the associated method blank concentration were flagged (U-MB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample analysis process. For samples where detections of phenanthrene were between the MDL and RL but less than 5 times the method blank concentration, the RL was reported and the sample result was qualified as a non-detect (U-MB). This qualifier was applied to the phenanthrene detections in samples MW-18, MW-30, and BXS-1.
- Benz(a)anthracene was detected at a concentration of 0.0023 µg/L in the method blank, falling between the MDL and RL. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, associated field samples with detections of benz(a)anthracene less than 5 times the method blank concentration were flagged (U-MB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample analysis process. For samples where detections of benz(a)anthracene were between the MDL and RL but less than 5 times the method blank concentration, the RL was reported and the sample result was qualified as a non-detect (U-MB). This qualifier was applied to benz(a)anthracene detections in samples MW-15, MW-16, MW-17, MW-18, MW-2, MW-30, MW-35, MW-36, MW-37, MW-44, MW-3, BXS-1, and BXS-2.

#### 5.2.5.2 Field Rinsate Blanks

The following PAH analytes were detected within the field rinsate blank:

- Naphthalene was detected at a concentration of 0.017 µg/L, between the MDL and RL, in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of naphthalene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. This qualifier was applied to the naphthalene detections in samples MW-15, MW-16, MW-17, MW-18, MW-2, MW-30, MW-36, MW-37, MW-3, BXS-1, and BXS-2.
- 2-Methylnaphthalene was detected at a concentration of 0.0044 µg/L, between the MDL and RL, in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of 2-Methylnaphthalene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. This qualifier was

applied to the 2-Methylnaphthalene detections in samples MW-18, MW-30, MW-36, MW-37, BXS-1, and BXS-2.

- Acenaphthylene was detected at a concentration of 0.020 µg/L in the field rinsate blank between the MDL and RL. Acenaphthylene was not detected in any of the field samples and no further corrective action was taken.
- Benz(a)anthracene was detected at a concentration of 0.0024 µg/L in the field rinsate blank between the MDL and RL. However, this detection was not distinguishable from contamination observed in the method blank and was qualified as a non-detect (U-MB).

### **5.2.6 Surrogate Analysis**

Surrogate compounds flourene-d<sub>10</sub>, fluoranthene-d<sub>10</sub>, and terphenyl-d<sub>14</sub> were added to all field samples, blanks, and QC samples during the analysis of PAHs. All surrogate recoveries were within the SADMP-specified and laboratory-specified control limits.

### **5.2.7 Internal Standard Evaluation**

Internal standards (IS) were added to all samples, blanks, and QC samples as required. All IS recoveries were within the SADMP-specified 50 to 100 percent limits.

### **5.2.8 Laboratory Control Sample Analyses**

ALS processed and analyzed LCS/LCSDs at the required frequency of 1 per extraction batch of 20 or fewer samples. LCS/LCSD recoveries and RPD values were within SADMP-specified criteria and/or laboratory control limits for analytes not listed in the SADMP.

### **5.2.9 Field Duplicate Sample Analyses**

The field duplicate sample, MW-35/MW-44 was analyzed for PCP/PAHs. Although some analytes were detected between the MDL and RL in the samples, all detections were less than 5 times the concentration detected in the method blank or field rinsate blank (and thus qualified as non-detects).

### **5.2.10 Laboratory Reporting Limits**

All reporting limit goals were met during the analysis of PAHs in field samples.

### **5.2.11 Data Reporting and Additional Analytical Method Qualifications**

ALS assigned “J” qualifier flags to detected results falling between the MDL and RL. GSI agrees that these results should be qualified as estimated values because of their detection below RLs. However, in instances where these detections were less than five times that of a detection within the associated field blank or method blank, GSI changed the qualifier to a “U” flag as noted in Section 5.2.6.

## **6 Overall Assessment of Data Usability**

The data are fully usable with the addition of the qualifiers specified in Sections 5.1 and 5.2. Qualifiers added or modified during data validation are summarized in Table D-3.

This achieves the SADMP-specified completeness goal of 95 percent usable data.

## 7 References

Baxter. 2002. Sampling and Analysis and Data Management Plan for the Site Investigation Work Plan J.H. Baxter Arlington Facility, Revision 2. Prepared by the J.H. Baxter Project Team for EPA Region 10. May 15, 2002.

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EPA. 1996. Method 8151A, Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzoylation Derivatization, Revision 1. December 1996.

EPA. 1999. USEPA CLP National Functional Guidelines for Organic Data Review, EPA-540-R-99-008. October 1999.

EPA. 2001. Region 9 Superfund Data Evaluation/Validation Guidance, Version 1, R9QA/006.1, December 2001.

EPA. 2002. Guidance on Environmental Data Verification and Data Validation. US EPA QA/G-8. November 2002.

EPA. 2007. Method 8270D, Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), Revision 4. February 2007.

EPA. 2014. EPA CLP National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002. August 2014.

**Table D-1. Field Samples Submitted with Corresponding Laboratory Identifications**

J.H. Baxter &amp; Co.

Arlington, Washington

Field Sample ID	Sample Date	ALS Sample ID	Notes
BXS-1	3/17/2018	K1802582-001	
BXS-2	3/17/2018	K1802582-002	
BXS-5			No field duplicate sampled
HCMW-7	3/18/2018	K1802579-001	PCP only
MW-2	3/18/2018	K1802579-006	
MW-3	3/17/2018	K1802579-031	
MW-15	3/17/2018	K1802579-002	
MW-16	3/17/2018	K1802579-003	
MW-17	3/17/2018	K1802579-004	
MW-18	3/18/2018	K1802579-005	
MW-22	3/17/2018	K1802579-007	PCP only
MW-23	3/17/2018	K1802579-008	PCP only
MW-24	3/17/2018	K1802579-009	PCP only, MS/MSD
MW-25	3/17/2018	K1802579-010	PCP only
MW-26	3/17/2018	K1802579-011	PCP only
MW-27	3/17/2018	K1802579-012	PCP only
MW-28	3/17/2018	K1802579-013	PCP only
MW-29	3/17/2018	K1802579-014	PCP only
MW-30	3/17/2018	K1802579-015	
MW-31	3/17/2018	K1802579-016	PCP only
MW-32	3/17/2018	K1802579-017	PCP only
MW-33	3/17/2018	K1802579-018	PCP only
MW-34	3/17/2018	K1802579-019	PCP only
MW-35	3/17/2018	K1802579-020	
MW-36	3/17/2018	K1802579-021	
MW-37	3/17/2018	K1802579-022	
MW-38	3/17/2018	K1802579-023	PCP only
MW-39	3/18/2018	K1802579-024	PCP only
MW-40	3/17/2018	K1802579-025	PCP only
MW-41	3/18/2018	K1802579-026	PCP only
MW-42	3/18/2018	K1802579-027	PCP only
MW-43	3/18/2018	K1802579-028	PCP only
MW-44	3/17/2018	K1802579-029	PCP/PAH, field dup for MW-35
EW Composite	3/16/2018	K1802580-004	Lab composite, PCP and breakdown products only. MS/MSD
Field Blank Rinsate	3/17/2018	K1802579-030	

**Notes**

ALS = ALS Environmental

MS/MSD = matrix spike/matrix spike duplicate

PAH = polyaromatic hydrocarbon

PCP = pentachlorophenol

**Table D-2. Field Duplicate Detections**

J.H. Baxter &amp; Co.

*Arlington, Washington*

Sample IDs	Analyte	Unit	Reporting Limit	Primary Sample	Field Duplicate	Relative Percent Difference	Notes
MW-35 & MW-44	Pentachlorophenol	µg/L	0.5	ND U	0.082 J	79	1

1/2 MDL

**Notes**

0.0355

ug/L = micrograms per liter

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit

U = Analyte was not detected above the reported sample quantification limit

1 The difference between the detected results is less than the associated reporting limit

**Table D-3. Qualifiers Added or Modified During Validation**

J.H. Baxter &amp; Co.

Arlington, Washington

Sample ID	Analyte	Unit	Result	Qualifier	Reason Codes
MW-15	Naphthalene	ug/L	0.021	U	MB, RB
MW-16	Naphthalene	ug/L	0.020	U	MB, RB
MW-17	Naphthalene	ug/L	0.020	U	MB, RB
MW-18	Naphthalene	ug/L	0.020	U	MB, RB
MW-2	Naphthalene	ug/L	0.020	U	MB, RB
MW-30	Naphthalene	ug/L	0.020	U	MB, RB
MW-36	Naphthalene	ug/L	0.020	U	MB, RB
MW-37	Naphthalene	ug/L	0.020	U	MB, RB
MW-3	Naphthalene	ug/L	0.021	U	MB, RB
BXS-2	Naphthalene	ug/L	0.021	U	MB, RB
MW-18	Phenanthrene	ug/L	0.020	U	MB
MW-30	Phenanthrene	ug/L	0.020	U	MB
BXS-1	Phenanthrene	ug/L	0.021	U	MB
MW-15	Benz(a)anthracene	ug/L	0.021	U	MB
MW-16	Benz(a)anthracene	ug/L	0.020	U	MB
MW-17	Benz(a)anthracene	ug/L	0.020	U	MB
MW-18	Benz(a)anthracene	ug/L	0.020	U	MB
MW-2	Benz(a)anthracene	ug/L	0.020	U	MB
MW-30	Benz(a)anthracene	ug/L	0.020	U	MB
MW-35	Benz(a)anthracene	ug/L	0.020	U	MB
MW-36	Benz(a)anthracene	ug/L	0.020	U	MB
MW-37	Benz(a)anthracene	ug/L	0.020	U	MB
MW-44	Benz(a)anthracene	ug/L	0.020	U	MB
FIELD BLANK RINSATE	Benz(a)anthracene	ug/L	0.021	U	MB
MW-3	Benz(a)anthracene	ug/L	0.021	U	MB
BXS-1	Benz(a)anthracene	ug/L	0.021	U	MB
BXS-2	Benz(a)anthracene	ug/L	0.021	U	MB
BXS-1	Naphthalene	ug/L	0.021	U	RB
MW-18	2-Methylnaphthalene	ug/L	0.020	U	RB
MW-30	2-Methylnaphthalene	ug/L	0.020	U	RB
MW-36	2-Methylnaphthalene	ug/L	0.020	U	RB
MW-37	2-Methylnaphthalene	ug/L	0.020	U	RB
BXS-1	2-Methylnaphthalene	ug/L	0.020	U	RB
BXS-2	2-Methylnaphthalene	ug/L	0.020	U	RB

**Notes**

µg/L = micrograms per liter

**Qualifier Definitions**

J+ = The result is an estimated quantity, but may be biased high.

U = Analyte was not detected above the reported sample quantification limit.

**Table D-3. Qualifiers Added or Modified During Validation**

J.H. Baxter & Co.

*Arlington, Washington*

Sample ID	Analyte	Unit	Result	Qualifier	Reason Codes
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**Reason Code Definitions**

MB = The analyte was detected in the sample and the associated method blank. The sample concentration is less than five times the concentration detected in the method blank.

PC = Sample detections may be the result of potential contamination in the collection or analytical process or may be indicative of high bias.

RB = The analyte was detected in the sample and the associated rinsate blank. The sample concentration is less than five times the concentration detected in the rinsate blank. Or the RL was elevated to the value detected in the field/method blank.



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## **Laboratory Data Validation Memorandum**

Site Investigation - Supplemental Groundwater Sampling and Remedial Action  
Second Quarter 2018 - Pilot Study Performance Monitoring  
Former J.H. Baxter & Co. Wood Treating Facility  
Arlington, Washington

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## Acronyms

%D	percent difference
%drift	percent drift
µg/L	microgram per liter
ALS	ALS Environmental
CCV	continuing calibration verification
CLP	Contract Laboratory Program
COC	chain of custody
EPA	U.S. Environmental Protection Agency
GC/MS	gas chromatography/mass spectrometry - gas chromatographer/mass spectrometer
GSI	GSI Water Solutions, Inc.
ICAL	initial calibration
ICV	initial calibration verification
IS	internal standards
ID	identification
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
PAH	polycyclic aromatic hydrocarbon
PCP	pentachlorophenol
QC	quality control
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SADMP	Sampling and Analysis and Data Management Plan
SIM	selective ion monitoring

## 1 Introduction

GSI Water Solutions Inc. (GSI), performed a data validation of the analytical laboratory activities conducted for groundwater samples collected at the former J.H. Baxter & Co. Arlington, Washington, wood-treating facility (the facility) in the second quarter of 2018. Thirty-two groundwater samples (including one duplicate), a composite extraction well sample, and one field blank rinsate sample were collected on July 16<sup>th</sup> and 17<sup>th</sup>, as part of the facility's *Remedial Action Pilot Study Performance Monitoring Plan* (Baxter, 2007). All samples were submitted to ALS Environmental (ALS) located in Kelso, Washington, where they were analyzed for pentachlorophenol (PCP) and/or breakdown products by Modified U.S. Environmental Protection Agency (EPA) Method 8151A and, in select samples, for polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270D-selective ion monitoring (SIM). Table D-1 provides a list of the field and laboratory sample identifications (ID), sample collection dates, and individual sample analyses conducted for the samples reviewed in this memorandum.

## 2 Data Validation Methodology

In agreement with Appendix B (Sampling and Analysis Data Management Plan [SADMP], Revision 2) of the Site Investigation Work Plan, this data validation memorandum was prepared in general accordance with the following documents:

- Baxter. 2002. Sampling and Analysis and Data Management Plan for the Site Investigation Work Plan J.H. Baxter Arlington Facility (SADMP).
- EPA. 1999. USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, EPA-540-R-99-008. October 1999.
- EPA. 2002. Guidance on Environmental Data Verification and Data Validation. US EPA QA/G-8. November 2002.
- EPA. 2014. EPA CLP National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002. August 2014.

The EPA CLP guidelines have been modified for this data review where they differ from method-specific quality control (QC) requirements. In general, the data validation review outline provided in Section D2 of the SADMP was followed, and laboratory analytical reports and supporting documentation were reviewed to assess the following elements:

- Data package and electronic data deliverable completeness
- Chain-of-custody (COC) – completeness and continuous custody
- Proper sample preservation and holding times achieved
- Instrument tuning, calibration, and performance criteria achieved
- Field and laboratory blanks conducted at proper frequency and free of contamination
- Field and laboratory duplicates, matrix spikes (MS)/matrix spike duplicates (MSD), and laboratory control samples (LCS)/laboratory control sample duplicates (LCSD) analyzed at proper frequency and control limits achieved

- Surrogate compound and internal standard analyses performed and recoveries within accuracy control limits
- Required detection limits achieved

Although this data validation memorandum includes a review of the QC results provided in laboratory analytical reports and reported on QC summary forms, it does not include a review of the raw analytical data to confirm reported concentrations and analyte identification.

### **3 Qualifiers and Reason Codes Applied During Validation**

Qualifier flags may be applied to data during the validation process if it is determined that certain QC elements have not been achieved.

#### **3.1 Qualifiers**

Data qualifiers and definitions are consistent with the EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review* and previous data validation memoranda.

Specifically, the qualifiers that may be applied during this validation process are as follows:

- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ The analysis indicates the presence of an analyte that has been “tentatively identified” or “presumptively” as present, and the associated numerical value is the estimated concentration in the sample.
- R The sample result is rejected because of serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may be inaccurate or imprecise.

#### **3.2 Reason Codes**

Reason codes are applied with qualifiers to identify the data validator’s justification for assigning a particular qualifier flag. The following reason codes are consistent with laboratory data qualifiers and previous data validation review memoranda.

- DL The analyte was detected at a concentration greater than the method detection limit (MDL), but lower than the reporting limit (RL).
- LC Low continuing calibration verification (CCV) recovery. Analytical result may be biased low.
- HC High CCV recovery. Analytical result may be biased high.
- HT The sample holding time (extraction or analysis) was exceeded.
- ID The sample identification/sample location cannot be verified.
- MB The analyte was detected in the sample and the associated laboratory/method blank. The concentration detected in the sample was less than 5 times the concentration detected in the blank.
- MI Matrix interference prevented adequate resolution of the target compound at the normal limit.
- RB The analyte was detected in the sample and the associated rinsate blank. The concentration detected in the sample was less than 5 times the concentration detected in the blank.
- PC Sample detections may be the result of potential contamination in the collection or analytical process or may be indicative of high bias.
- PD The relative percent difference (RPD) between results from primary and field duplicate sample is greater than 40 percent.
- SC The RPD between results from the primary and confirmation columns is greater than 40 percent.
- SR The surrogate recovery was outside of control criteria.

#### **4 Validation of Custody, Preservation, and Completeness**

Sample custody was maintained as required from sample collection to receipt at ALS, and sample chain of custody (COC) papers were properly filled out. All sample coolers arrived at the laboratory below the EPA-recommended maximum temperature of 6°C, and all samples were immediately stored in a 4°C refrigerator upon receipt at the laboratory.

No discrepancies were observed in the custody, preservation, and completeness processes.

## 5 Validation of Laboratory Analytical Data

Thirty-four samples were analyzed for PCP and/or breakdown products via EPA Method 8151A Modified, and 12 of the 34 samples were analyzed for PAHs via EPA Method 8270D-SIM. Findings from the review of laboratory data generated during the two analytical method analyses are presented below.

### 5.1 Pentachlorophenol and Breakdown Products by EPA Method 8151A Modified

#### 5.1.1 Holding Times

In accordance with the SADMP-specified holding times, samples analyzed for PCP and/or breakdown products were extracted within 7 days from the time of collection, and sample extracts were analyzed within 40 days from the time of extraction for all samples.

#### 5.1.2 Instrument Calibration

##### 5.1.2.1 Initial Calibration

Initial calibration (ICAL) criteria were achieved. Relative standard deviations (RSD) were less than the SADMP-specified maximum of 25 percent and coefficients of determination were greater than 0.99.

##### 5.1.2.2 Initial Calibration Verification

Initial calibration verifications (ICV) or second source calibration verification analyte recoveries associated with the PCP analysis were within the SADMP-specified limit of  $\pm 20$  percent difference (%D) or percent drift (%drift) of the ICAL. The %D is used when performing average response factor model calibration and the %drift is used when calibrating using a regression fit model.

##### 5.1.2.3 Continuing Calibration Verification

Continuing calibration verification (CCV) recoveries associated with the PCP analysis were within the control criteria limit of  $\pm 20$  %D or %drift of the initial calibration with the following exception:

- The primary evaluation criteria were slightly above target %drift limits for 2,4,6-Trichlorophenol in two CCV recoveries. No further corrective action was deemed necessary, and the data quality do not appear to have been affected.

#### 5.1.3 Blank Analyses

##### 5.1.3.1 Laboratory/Method Blanks

Laboratory or method blanks were analyzed at the required frequency of one per extraction batch of 20 or fewer samples. All method blanks were free of target analytes with one exception:

- The analyte 2,4,6-Trichlorophenol was detected between the MDL and MRL in the method blank KQ1808476-04 run with the sample EW Composite. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, associated field samples with detections of 2,4,6-Trichlorophenol less than 5 times the method blank concentration were flagged (U-MB) to indicate that the concentration could

not be distinguished from potential contamination associated with the sample analysis process. A detection of 2,4,6-Trichlorophenol in sample EW Composite fell between the MDL and RL and was less than 5 times the method blank concentration. Accordingly, the RL was reported and the sample result was qualified as a non-detect (U-MB).

#### **5.1.3.2 Field Rinsate Blanks**

Pentachlorophenol was not detected in the field rinsate blank.

#### **5.1.4 Surrogate Analysis**

The surrogate compound, 4-bromo-2,6-dichlorophenol, was added to all field samples, blanks, and QC samples during the analysis of PCP. All recoveries of the surrogate compound were within the SADMP-specified and laboratory-specified control limits.

#### **5.1.5 Laboratory Control Sample Analyses**

ALS reported LC samples at the required frequency of one per extraction batch of 20 or fewer samples. All LC recovery percentages were within control limits.

#### **5.1.6 Matrix Spike/Matrix Spike Duplicate Analyses**

MS and MSD samples were processed from samples MW-3 and MW-36. Recovery percentages and RPDs were within laboratory control limits for all MS/MSD sample analytes.

#### **5.1.7 Field Duplicate Sample Analyses**

The field duplicate sample, MW-18/MW-44 was processed during the analysis for PCP. Analytical results are summarized in Table D-2. PCP was not detected in either sample and no dilutions were required. Accordingly, the data are not further qualified.

#### **5.1.8 Laboratory Reporting Limits**

Reporting limits were met for undiluted samples. However, sample MW-40 required a 10-times dilution due to the presence of elevated levels of the target analyte. The reporting limits were adjusted to reflect the dilution. PCP was detected in sample MW-40 well above the reporting limit and the data are not further qualified.

#### **5.1.9 Confirmation Results**

Analytical results were collected from a primary and confirmation column during the analysis of PCP and associated breakdown products by EPA Method 8151A Modified. The RPDs between analytical results from the primary and confirmation columns did not exceed the laboratory-specified RPD limit of 40 percent.

#### **5.1.10 Data Reporting and Additional Analytical Method Qualifications**

ALS assigned “J” qualifier flags to detected results falling between the MDL and RL. GSI agrees that these results should be qualified as estimated values because of their detection below RLs. However, in instances where these detections were less than five times that of a detection within the associated field blank or method blank, GSI changed the qualifier to a “U” flag to note that the detection couldn’t be distinguished from the blank contamination.

## **5.2 Polycyclic Aromatic Hydrocarbons by EPA Method 8270D-SIM**

### **5.2.1 Holding Times**

In accordance with the SADMP-specified holding times, samples analyzed for PAHs were extracted within 7 days from the time of collection, and sample extracts were analyzed within 40 days from the time of extraction.

### **5.2.2 Instrument Tuning and Mass Calibration**

The compound decafluorotriphenylphosphine was used to tune the GC/MS before the ICAL and for each 12-hour analytical shift. ALS reports that all relative abundance criteria passed method-specified limits.

### **5.2.3 Initial Calibration**

The average relative response factors (RRF) were greater than the SADMP-specified minimum of 0.1, and RSDs were less than the SADMP-specified (< 25 percent) or laboratory-specified (< 20 percent) control limits.

### **5.2.4 Initial Calibration Verification**

The ICV analyte recoveries associated with the analysis of PAHs were within the laboratory-specified limits of  $\pm 30$  %D of the ICAL.

### **5.2.5 Continuing Calibration Verification**

The CCV recoveries associated with the analysis of PAHs were all within control criteria limits of  $\pm 20$  %D of the ICAL.

#### **5.2.5.1 Laboratory/Method Blanks**

Method blanks were analyzed at the required frequency of 1 per extraction batch of 20 or fewer samples. In this case, the single method blank was analyzed on the same day as its extraction lot—July 10th. The method blank was free of target analytes with the following exceptions:

- Phenanthrene was detected at a concentration of 0.0023  $\mu\text{g/L}$  in the method blank, KWG1803064-3, a value falling between the MDL and RL. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of phenanthrene less than 5 times the method blank concentration were flagged (U-MB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample analysis process. For samples where detections of phenanthrene were between the MDL and RL but less than 5 times the method blank concentration, the RL was reported and the sample result was qualified as a non-detect (U-MB). For samples where detections of phenanthrene were above the RL but less than 5 times the method blank concentration, the result was reported as is, but qualified as a non-detect (U-MB). This qualifier was applied to phenanthrene detections in samples MW-18 and MW-30. Phenanthrene was also detected in the Field Rinsate blank above the RL and at a detection greater than 5 times the method blank concentration.
- Benz(a)anthracene was detected at a concentration of 0.0040  $\mu\text{g/L}$  in the method blank, falling between the MDL and RL. In accordance with EPA CLP *National Functional*

*Guidelines for Superfund Organic Methods Data Review*, associated field samples with detections of benz(a)anthracene less than 5 times the method blank concentration were flagged (U-MB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample analysis process. For samples where detections of benz(a)anthracene were between the MDL and RL but less than 5 times the method blank concentration, the RL was reported and the sample result was qualified as a non-detect (U-MB). This qualifier was applied to benz(a)anthracene detections in samples MW-15, MW-17, MW-18, MW-2, MW-30, MW-35, MW-36, MW-37, MW-3, BXS-1, and BXS-2.

#### **5.2.5.2 Field Rinsate Blanks**

The following PAH analytes were detected within the field rinsate blank:

- Naphthalene was detected at a concentration of 0.16 µg/L above the RL in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of naphthalene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. This qualifier was applied to the naphthalene detections in samples MW-18, MW-30, and MW-36.
- 2-Methylnaphthalene was detected at a concentration of 0.0034 µg/L, between the MDL and RL, in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of 2-Methylnaphthalene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. This qualifier was applied to the 2-Methylnaphthalene detections in samples MW-18, MW-30, MW-36, MW-37, BXS-1, and BXS-2.
- Acenaphthylene was detected at a concentration of 0.0092 µg/L in the field rinsate blank between the MDL and RL. Acenaphthylene was not detected in any of the field samples and no further corrective action was taken.
- Acenaphthene was detected at a concentration of 0.021 µg/L, between the MDL and RL, in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of acenaphthene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. This qualifier was applied to the acenaphthene detections in sample MW-2
- Fluorene was detected at a concentration of 0.078 µg/L above the RL in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of fluorene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the

concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. Fluorene was not detected in any of the field samples and no further corrective action was taken.

- Phenanthrene was detected at a concentration of 0.088 µg/L above the RL in the field rinsate blank. In accordance with EPA CLP *National Functional Guidelines for Superfund Organic Methods Data Review*, field samples with detections of phenanthrene less than 5 times the field rinsate blank concentration were flagged (U-RB) to indicate that the concentration could not be distinguished from potential contamination associated with the sample collection process. Samples detected between the MDL and RL were reported at the RL and qualified as non-detects. This qualifier was applied to the phenanthrene detections in samples MW-18 and MW-30.
- Anthracene was detected at a concentration of 0.0051 µg/L, between the MDL and RL, in the field rinsate blank. Anthracene was not detected in any of the field samples and no further corrective action was taken.
- Benz(a)anthracene was detected at a concentration of 0.0036 µg/L in the field rinsate blank between the MDL and RL. However, this detection was not distinguishable from contamination observed in the method blank and was qualified as a non-detect (U-MB).

### 5.2.6 Surrogate Analysis

Surrogate compounds flourene-d<sub>10</sub>, fluoranthene-d<sub>10</sub>, and terphenyl-d<sub>14</sub> were added to all field samples, blanks, and QC samples during the analysis of PAHs. All surrogate recoveries were within the SADMP-specified and laboratory-specified control limits.

### 5.2.7 Internal Standard Evaluation

Internal standards (IS) were added to all samples, blanks, and QC samples as required. All IS recoveries were within the SADMP-specified 50 to 100 percent limits.

### 5.2.8 Laboratory Control Sample Analyses

ALS processed and analyzed LCS/LCSDs at the required frequency of 1 per extraction batch of 20 or fewer samples. ALS reports that the spike recovery of several analytes for LCS KWG1803064-1 was outside the lower control criterion. RPD for these analytes were also subsequently outside of control limits. The analytes in question were not detected in the associated field samples, and the error may indicate a potential low bias. No further corrective action was taken, and additional analyses were not performed because insufficient sample remained for testing. Data are flagged within the laboratory report.

### 5.2.9 Field Duplicate Sample Analyses

The field duplicate sample, MW-44 was not analyzed for PAHs.

### 5.2.10 Laboratory Reporting Limits

Method RLs for PAH analyses were approximately twice the RL goals of 0.020 ug/L for a clean water matrix as specified in Table B-7 of the SADMP Appendix B. The data were not further qualified.

### **5.2.11 Data Reporting and Additional Analytical Method Qualifications**

ALS assigned “J” qualifier flags to detected results falling between the MDL and RL. GSI agrees that these results should be qualified as estimated values because of their detection below RLs. However, in instances where these detections were less than five times that of a detection within the associated field blank or method blank, GSI changed the qualifier to a “U” flag as noted in Section 5.2.6.

## **6 Overall Assessment of Data Usability**

The data are fully usable with the addition of the qualifiers specified in Sections 5.1 and 5.2. Qualifiers added or modified during data validation are summarized in Table D-3.

This achieves the SADMP-specified completeness goal of 95 percent usable data.

## **7 References**

Baxter. 2002. Sampling and Analysis and Data Management Plan for the Site Investigation Work Plan J.H. Baxter Arlington Facility, Revision 2. Prepared by the J.H. Baxter Project Team for EPA Region 10. May 15, 2002.

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EPA. 1996. Method 8151A, Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzoylation Derivatization, Revision 1. December 1996.

EPA. 1999. USEPA CLP National Functional Guidelines for Organic Data Review, EPA-540-R-99-008. October 1999.

EPA. 2001. Region 9 Superfund Data Evaluation/Validation Guidance, Version 1, R9QA/006.1, December 2001.

EPA. 2002. Guidance on Environmental Data Verification and Data Validation. US EPA QA/G-8. November 2002.

EPA. 2007. Method 8270D, Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), Revision 4. February 2007.

EPA. 2014. EPA CLP National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-014-002. August 2014.

**Table D-1. Field Samples Submitted with Corresponding Laboratory Identifications**

J.H. Baxter &amp; Co.

Arlington, Washington

Field Sample ID	Sample Date	ALS Sample ID	Notes
BXS-1	6/17/2018	K1805808-001	
BXS-2	6/16/2018	K1805808-002	
BXS-5			No field duplicate sampled
HCMW-7	6/16/2018	K1805809-001	PCP only
MW-2	6/16/2018	K1805809-005	
MW-3	6/17/2018	K1805809-030	MS/MSD
MW-15	6/17/2018	K1805809-002	
MW-16			Unable to locate in 2nd Qtr Samp Event
MW-17	6/17/2018	K1805809-003	
MW-18	6/16/2018	K1805809-004	
MW-22	6/16/2018	K1805809-006	PCP only
MW-23	6/17/2018	K1805809-007	PCP only
MW-24	6/17/2018	K1805809-008	PCP only
MW-25	6/17/2018	K1805809-009	PCP only
MW-26	6/17/2018	K1805809-010	PCP only
MW-27	6/16/2018	K1805809-011	PCP only
MW-28	6/16/2018	K1805809-012	PCP only
MW-29	6/16/2018	K1805809-013	PCP only
MW-30	6/16/2018	K1805809-014	
MW-31	6/16/2018	K1805809-015	PCP only
MW-32	6/16/2018	K1805809-016	PCP only
MW-33	6/16/2018	K1805809-017	PCP only
MW-34	6/16/2018	K1805809-018	PCP only
MW-35	6/16/2018	K1805809-019	
MW-36	6/16/2018	K1805809-020	MS/MSD
MW-37	6/17/2018	K1805809-021	
MW-38	6/16/2018	K1805809-022	PCP only
MW-39	6/17/2018	K1805809-023	PCP only
MW-40	6/17/2018	K1805809-024	PCP only
MW-41	6/17/2018	K1805809-025	PCP only
MW-42	6/16/2018	K1805809-026	PCP only
MW-43	6/16/2018	K1805809-027	PCP only
MW-44	6/16/2018	K1805809-028	PCP, field dup for MW-18
EW Composite	6/16/2018	K1805807-003	Lab composite, PCP and breakdown products only.
Field Blank Rinsate	6/16/2018	K1805809-029	

**Notes**

ALS = ALS Environmental

MS/MSD = matrix spike/matrix spike duplicate

PAH = polyaromatic hydrocarbon

PCP = pentachlorophenol

**Table D-2. Field Duplicate Detections**

J.H. Baxter &amp; Co.

*Arlington, Washington*

Sample IDs	Analyte	Unit	Reporting Limit	Primary Sample		Field Duplicate		Relative Percent Difference	Notes
MW-18 & MW-44	Pentachlorophenol	µg/L	0.5	ND	U	ND	U	0	

**Notes**

ug/L = micrograms per liter

ND = not detected

U = Analyte was not detected above the reported sample quantification limit

**Table D-3. Qualifiers Added or Modified During Validation**

J.H. Baxter &amp; Co.

Arlington, Washington

Sample ID	Analyte	Unit	Result	Qualifier	Reason Codes
EW-Composite	2,4,6-Trichlorophenol	ug/L	0.50	U	MB
MW-18	Phenanthrene	ug/L	0.040	U	MB, RB
MW-30	Phenanthrene	ug/L	0.040	U	MB, RB
BXS-1	Benz(a)anthracene	ug/L	0.040	U	MB
BXS-2	Benz(a)anthracene	ug/L	0.040	U	MB
MW-15	Benz(a)anthracene	ug/L	0.040	U	MB
MW-17	Benz(a)anthracene	ug/L	0.040	U	MB
MW-18	Benz(a)anthracene	ug/L	0.040	U	MB
MW-2	Benz(a)anthracene	ug/L	0.040	U	MB
MW-30	Benz(a)anthracene	ug/L	0.040	U	MB
MW-35	Benz(a)anthracene	ug/L	0.040	U	MB
MW-36	Benz(a)anthracene	ug/L	0.040	U	MB
MW-37	Benz(a)anthracene	ug/L	0.040	U	MB
MW-3	Benz(a)anthracene	ug/L	0.040	U	MB
FIELD BLANK RINSATE	Benz(a)anthracene	ug/L	0.040	U	MB
MW-2	Acenaphthene	ug/L	0.040	U	RB
MW-18	Naphthalene	ug/L	0.040	U	RB
MW-30	Naphthalene	ug/L	0.040	U	RB
MW-36	Naphthalene	ug/L	0.040	U	RB
MW-18	2-Methylnaphthalene	ug/L	0.040	U	RB
MW-30	2-Methylnaphthalene	ug/L	0.040	U	RB
MW-36	2-Methylnaphthalene	ug/L	0.040	U	RB

**Notes**

µg/L = micrograms per liter

**Qualifier Definitions**

U = Analyte was not detected above the reported sample quantification limit.

**Reason Code Definitions**

MB = The analyte was detected in the sample and the associated method blank. The sample concentration is less than five times the concentration detected in the method blank.

RB = The analyte was detected in the sample and the associated rinsate blank. The sample concentration is less than five times the concentration detected in the rinsate blank. Or the RL was elevated to the value detected in the field/method blank.